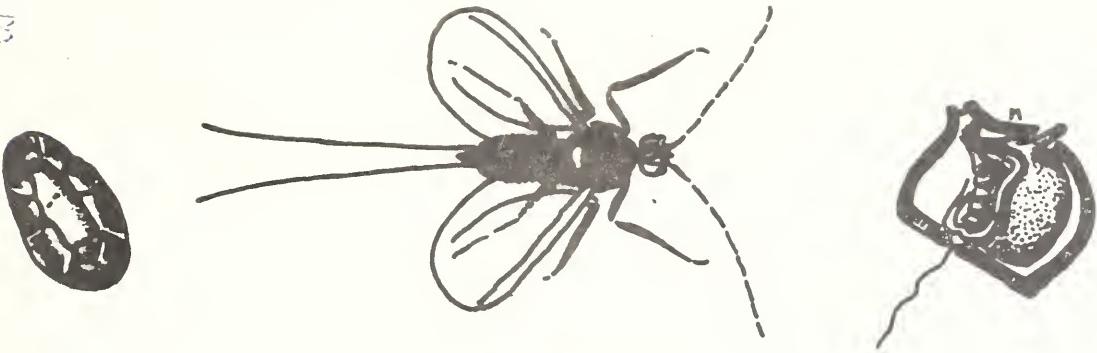


Historic, archived document

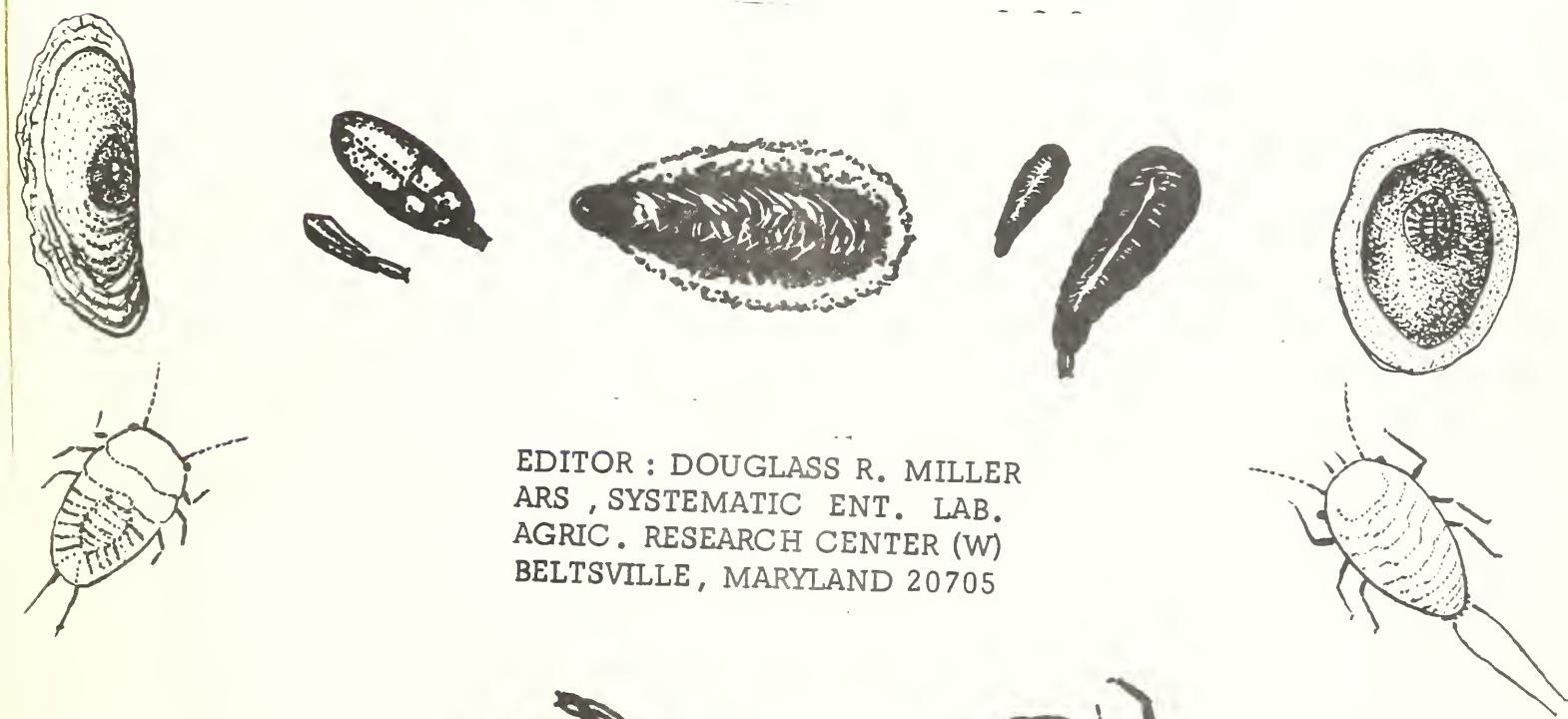
Do not assume content reflects current scientific knowledge, policies, or practices.

aQL523
27C6

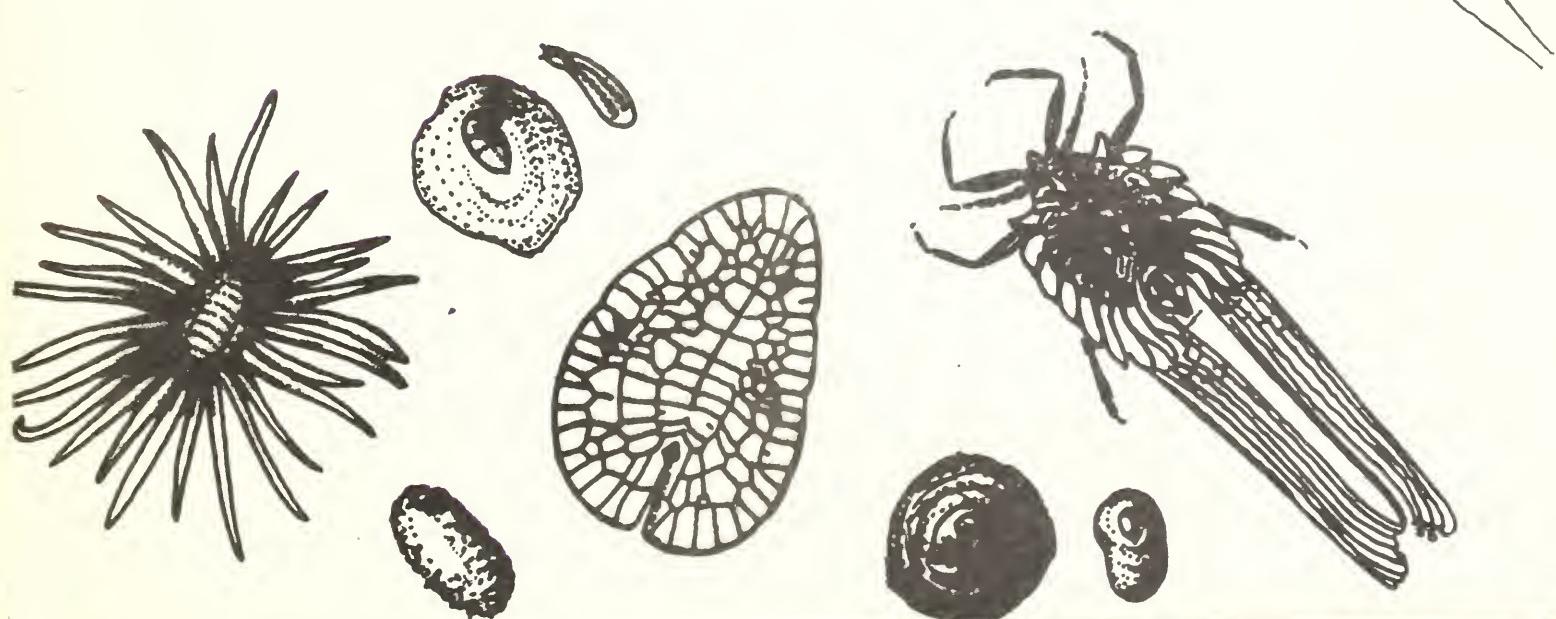


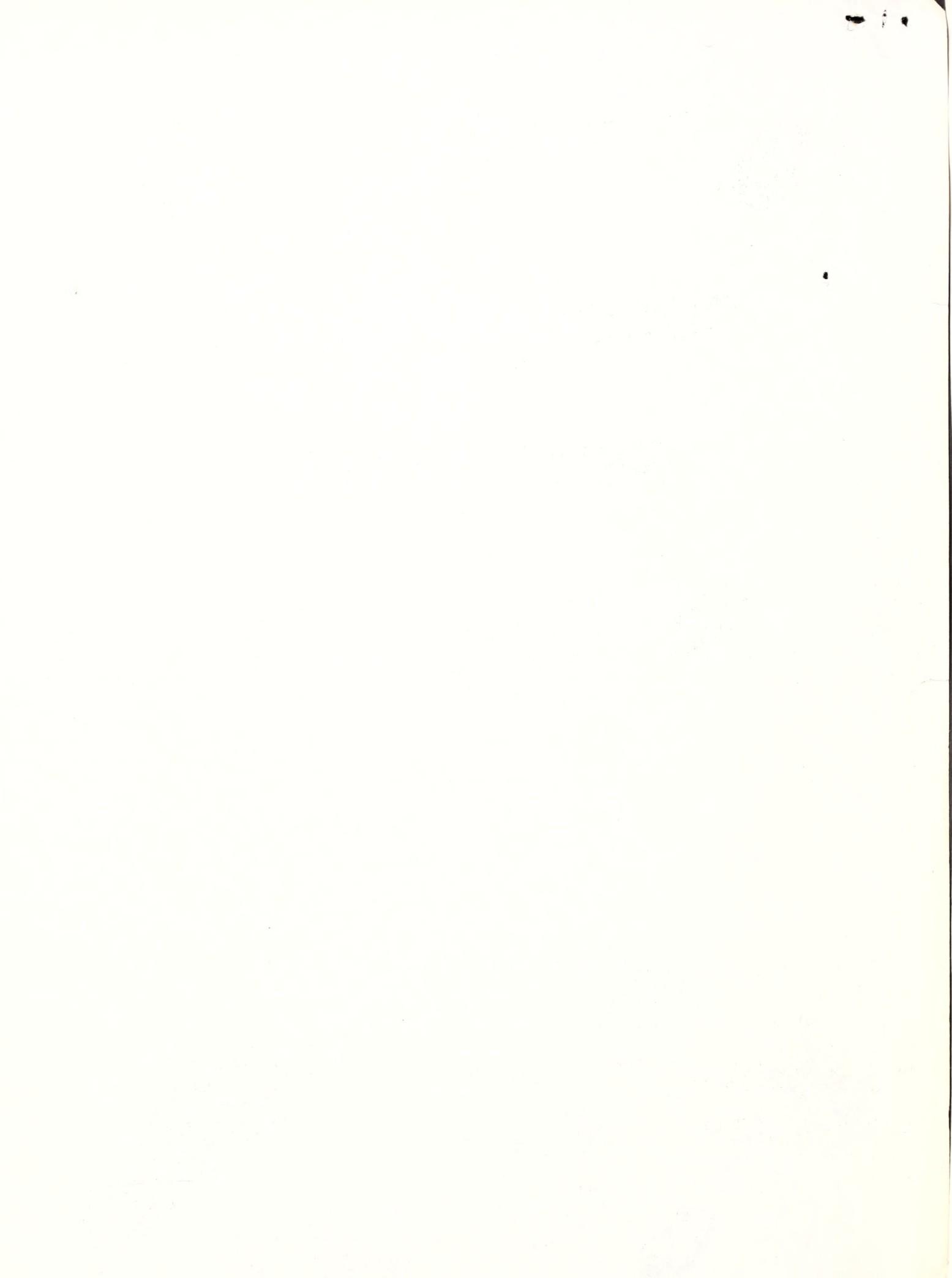
2/1

COCCIDIOLOGIST'S NEWSLETTER



EDITOR : DOUGLASS R. MILLER
ARS , SYSTEMATIC ENT. LAB.
AGRIC. RESEARCH CENTER (W)
BELTSVILLE , MARYLAND 20705





Vol. II - No. 1

December, 1974

A List of Coccoidean Species Deposited
in the United States National Museum
(Natural History), Beltsville, Maryland.
Part I. - The Diaspididae

by M. B. Stoetzel, S. Nakahara, D. R. Miller,
K. J. DeBold, J. F. Miller

For the past year much effort has been directed toward a compilation of a list of the Coccoidean species deposited in the U.S. National Museum. Part I - The Diaspididae - is the first section to be completed. Our purpose is to give Coccoidean systematists a general idea of the material in the collection. Because all scale-insect workers benefit from this kind of information, it is hoped that others will compile similar lists of their collections for inclusion in future newsletters.

The USNM Coccoidean collection includes an extensive library, a series of card catalogues containing approximately 600,000 entries, an extensive dry collection, and a large slide collection. Some of the more important collections deposited in part in the USNM are those of Brain, Cockerell, Comstock, Ehrhorn, and Maskell. Over the years this collection has been under the auspices of several specialists; those who have contributed most to its development are C. L. Marlatt, Harold Morrison, and Louise M. Russell.

Part I - The Diaspididae - lists 1,391 species name entries (including genus spp.), 62,336 slides, and 16,243 boxes of dry material. Little effort has been made to correct misidentifications, incorrect generic assignments, and improper type designations. Such corrections should be made when the various species are studied carefully.

The format for the list is as follows: (1) The number on the left refers to the total number of boxes of dry material; the number in parentheses is the number of boxes of that total that are given some sort of type designation; the letter(s) is an abbreviation of the type designation as it is written on the box (the abbreviations are the same as in (3)). (2) This section includes the specific epithet, the author's name, and the generic name where it is filed in the collection. If type material of a junior synonym is deposited in the collection, the junior synonym is listed followed by an equals sign and the name of synonym in parentheses. Otherwise all junior synonyms are not indicated. (3) The numbers on the right refer to the total number of

slides; the number in parentheses is the number of slides of that total that have some sort of type designation; the letter(s) is an abbreviation of the type designation as it is written on the slide.

The type abbreviations are as follows:

a = allotype	p = paratype
c = cotype	pl = paralectotype
h = holotype	pt of t = part of type
hm = homotype	s = syntype
L = lectotype	t = type
lp = lectoparatype = paralectotype	tm = type material
m = metatype	to = topotype

When a zero is given, it means that there is a place in the collection for that species, but no slides are filed there. (4) The abbreviations after the parentheses indicate whether specimens other than adult females are present on slides. We have been unable to examine all 62,336 slides and therefore this section is not always complete, but it does give an indication of the kinds of material present. Abbreviations in this section are as follows:

am = adult male
c = crawler
i = immature
pm = pupal male
ppm = prepupal male
ss = second stage

Diaspididae CollectionDry (Boxes)-A-

		<u>Slides</u>
	abdita Munting, Artemisaspis	2(1p, 1tm)
	Abgrallaspis spp.	164
	abieticola (Koroneos), Nuculaspis	2(lto)
26(lt)	abietis (Comstock), Gonaspidiotus	12(7t, 5to) ss, am
	abietis (Schrank), Nuculaspis	64
3	acaciae (Maskell), Coccoomytilus	30
	acaciae Froggatt, Gymnaspis	9(6c)
	acaciae Munting, Morganella	4(lp)
3	acaciae (Morgan), Neomorgania	0
11(lt)	acaciae (Maskell), Trullifiorinia	22, am
	acalcarata McKenzie, Parlatoria	2(2p)
	acalyptus Ferris, Thysanaspis	1(ltm)
	Acanthomytilus spp.	5
4	acephala Ferris, Pseudischnaspis	6(lt)
	acericola Hollinger, Chionaspis	8
1	actinodaphnes Takagi, Megacanthaspis	9(9tm)
	aculeata Ferris, Dinaspis	35
10(lt)	acuminata Munting, Relhaniaspis	1(lp)
	acuminata (Green), Unaspis	15(2tm)
	acuta (Ferris), Dactylaspis	3(lp, ltm)
30	Acutaspis spp.	445
	aechmeae Newstead, Gymnaspis	92
	aegilopos (Koroneos), Koroneaspis	2(lto)
1(lt)	aei Takagi, Unaspis	2(2tm)
	aelaeodendri Grandpre et Charmoy, Fiorinia	3(2c, ltm)
42	aequalis Munting, Diaspis	3(2p, ltm)
3(lt, 1c)	aesculi (Johnson), Diaspidiotus	72(8t, 2c)ss, am
	affinis Newstead, Parlatoria (= P. oleae)	2(2c)
	africana Munting, Duplachionaspis	1(lp)
	africana (Newstead), Salicicola	7, i, ss
	africana (Newstead), Varicaspis	1
12(lt, 8c)	africanus (Marlatt), Diaspidiotus	51(3t, 20c, 4tm)
	Africaspis spp.	2
	agathosmae Munting, Versiculaspis	3(3p)
1	agavis (Townsend & Cockerell), Acutaspis	53(5t, 1c)
	agrifoliae Essig, Protodiaspis	11
6	aharonii Bodenheimer, Aspidiotus	1
2(lt)	alata (Froggatt), Neleonardia	3
	alba (Froggatt), Triaspidis	3
	albizziae (Green), Pinnaspis	7, ss
	albopicta (Cockerell), Acutaspis	126(5t, 3c, 2tm)
	albopictus var. leonis Townsend + Cockerell, Aspidiotus (= A. albopicta)	6(5t, 1c)
2(lt)	albopunctatus Cockerell, Aspidiotus	1(1c)
	albus (Cockerell), Aonidomytilus	70(2t), i
	albus McKenzie, Selenaspidus	40(1t, 18p, 2tm)
	aldabraca (Green + Laing), Duplaspidiotus	1
	aliena (Newstead), Melanaspis	17
	alisiana Takagi, Aulacaspis	5
1(lt)	alluaudi (Grandpre et Charmoy), Emmereziaspis	2(2c)

9	alnus Kuwana, Chionaspis ambigua (Brain), Andaspis	16(1c, 3to) 1(lt)
111(lt, lc)	americana Johnson, Chionaspis ampelodesmae (Newstead), Evallasspis anacantha DeLotto, Rolaspis anareolae Ben-Dov, Pseudotargionia anasterias (Ferris), Mytilaspis ancylus (Putnam), Diaspidiotus ancylus v. latilobis Newell, Aspidiotus (= D. aencylus)	169(17t, 2c), am 2 1(lp) 2(2p) 6 705(4t, 2c, lto) am 3(lt, 2c)
266	l(lpt. of t) andamanensis Green, Neofurcaspis And aspis spp.	3(3pt. of t)i 29 1(lc)
1(lt)	andromelas Cockerell, Aspidiotus	2(1p, 1tm)
4(lt)	angularis Munting, Tecaspis	2
1	angusta (Green), Phenacaspis	1
	annandalei (Green), Kuwanaspis	1
	anneckei Munting, Magnospinus	1(lp)
	Annulaspis spp.	4
	anomala (Green), Ancepaspis	28(24tm)i, c
1(pt. of t)	ansei (Green), Chrysomphalus	3(ltm)
	antiquorum Green, Diaspis	2(2tm)
	antsingyi Mamet, Selenaspidus	1(lp)
	Aonidia spp.	78
	Aonidiella spp.	109
1	aonidiiformis Green, Parlatoria	4
1	aonidioides Lindinger, Cryptaspidiotus	3
480	Aonidomytilus spp.	35
	aonidum (L.), Chrysomphalus	1,487 am
	apachea Ferris, Nuculaspis	3
	apicalis Takagi, Smilacicola	1(ltm)
	apicata (Newstead), Mycetaspis	4(lto)
	araucariae Beardsley, Lepidosaphes	1(lp)
	araucariae Adachi + Fullaway, Octaspidiotus	2
2	archangelskyae (Lindinger), Suturaspis	4
	arctostaphyli (Cockerell + Robbins), Aspidaspis	7
	arcuata Munting, Rungaspis	2(lp, ltm)
	arengae Takagi, Parlatoria	2
3	argentata (Cockerell), Niveaspis	24(15t)
	argentosis Brittin, Poliaspis	3
	arii (Kuwana), Acanthomytilus	7(4c)
	arisonicus (Cockerell), Rugaspidiotus	5(2pt. of tm)
	armenicus (Borchsenius), Quadraspidiotus	2
	armigera Ferris, Nigridiaspis	2(2p)
384	arnaldoi (Costa Lima), Melanaspis	1(lp)
1(pt. of t)	articulatus (Morgan), Selenaspidus	1,489 (ltm) ss, am
1(lc)	artocarpi Green, Parlatoria	2(lpt. of t, lc)
	artocarpi (Green), Semelaspidus	6(4c) ss
	artus Munting, Aspidiotus	1(lp)
	arundinariae (Green), Greenaspis	5
1	arundinariae Tippins + Howell, Geodiaspis	6(1h, 5p)
	asiatica (Archangelskaya), Tecaspis	6
	Aspidaspis spp.	10
	Aspidiotini undetermined	107
249	Aspidiotus spp.	3
	aspidistrae (Signoret), Pinnaspis	637, am
	assimilis (Maskell), Unaspis	4
	asteliae (Green), Andaspis	1(lpt. of t)
	asymmetrica (Ferris), Haliaspis	3(ltm)

1	atlantica (Ferris), Cupressaspis	4(ltm)
1(lt)	atomariae Hall, Aonidiella	3(ltm)
	atricolor (Green), Unaspis	2
	atripileus Munting, Aspidiotus	1(lp)
	atriplicis (Ferris), Situlaspis	2
11(lc)	aucubae Cooley, Chionaspis (= Pseudaulacaspis cockerelli)	3(3c)
	Aulacaspis spp.	155
283	auranticolor (Cockerell), Pseudaulacaspis	5(2pt. of t, 3c)
1(lc)	aurantii (Maskell), Aonidiella	1,720 i, am
	auratilis (Newstead), Dentachionaspis	1(lc)
	australiensis (Kuwana), Octaspidiotus	12
	australis Hempel, Diaspis	4(lt, 3tm)
	australis Borchsenius, Lepidosaphes	15
	austroafricanus Lindinger, Cryptaspidiotus	1

-B-

	baccharidis (Townsend + Cockerell), Epidiaspis	3(3t)
	badia Brain, Aonidia	5(lt, 3p)
	bahamensis Ferris, Pseudodiaspis	1
1	baiati Kaussari, Quadraspidiotus	1
	baikeae (Newstead), Pseudaonidia	3
2	balachowskyi Kaussari, Schizotargionia	1
10	balteata Hall, Osiraspis	10
	bambusae (Maskell), Ischnafiorinia	20, ss
	bambusae (Cockerell), Unachionaspis	12(lc)
3(2t)	bambusarum (Cockerell), Froggattiella	11(4t)
	bambusicola (Cockerell), Kuwanaspis	7(2t, 2tm)
1	bambusicola (Takahashi), Mixaspis	1
1	bambusifoliae (Takahashi), Greenaspis	1
	banksiae Fuller, Aonidia	22(5t), i, c, am
2	banksiae (Maskell), Parlatoria	21
	barbata Ferris, Palinaspis	1
	barberi (Green), Pseudaulacaspis	2(lt)
1	barbigera Ferris, Clavaspis	1
	barbusano (Lindinger), Crytaspidiotus	2
1	barrancorum Lindinger, Diaspis	2
937	bavaricus (Lindinger), Quadraspidiotus	2
	beckii (Newman), Cornuaspis	729
	belutchistana (Balachowsky), Mytilaspis	1
1	bennetti Williams, Parlagena	10
1	berlesii (Leonardi), Duplachionaspis	1
	berliniae (Hall), Africaspis	1
2	betulae Tippins + Beshear, Chionaspis	3(3p)
	beyeriae (Green), Maskellana	4
	bibursa Ferris, Circulaspis	2
150	bibursella Ferris, Circulaspis	1
1	biclavis (Comstock), Howardia	328(9t), ss, am
3	bicornis (Green + Lidgett), Triaspidis	7
1	bicuspidis (Hall), Nilotaspis	3(ltm)
8	bidens Green, Fiorinia	5, 1
60	bifasciculatus Ferris, Chrysomphalus	74
1(lt)	biformis (Cockerell), Furcaspis	537(3c), i, ss, pp, p, am
	bigeloviae (Cockerell), Targaspidiotus	19(7t)
	biloba (Maskell), Chortinaspis	4
2	biloba (Ferris), Dactylaspis	2
	bilobis (Newstead), Contigaspis	2

1(lc)	bladhiae (Takahashi), Parainsulaspis	93
57	blanchardi (Targioni-Tozzetti), Parlatoria	146, am
boehmeriae Takahashi, Pinnaspis	1	
148	boisduvalii Signoret, Diaspis	1,017 am
2(lc)	boquetensis Ferris, Duplachionaspis	1
bornmuelleri Rubsaamen, Cryptophyllaspis	7	
bossiaeae (Maskell), Remotaspidiotus	10, i	
64	bowreyi (Cockerell), Pseudischnaspis	154(5t, 2tm, 1tm) am
boycei McKenzie, Parlatoria	1(lt)	
2(lt)	brachystegiae (Hall), Aonidomytilus	3(2t, 1c)
brasiliensis Hempel, Canceraspis	1	
brevipora Munting, Duplachionaspis	1(lp)	
1	brideliae (Takahashi), Phenacaspis	1
brimblecombei Williams, Pseudaulacaspis	1(lp)	
54	britannicus (Newstead), Dynaspidiotus	97(2t, 4c)i, ss
1	brittini Green, Leucaspis	1
67	bromeliae (Kerner), Diaspis	241, i, am
bromeliae Hempel, Furcaspis	1	
74	bromeliae (Leonardi), Melanaspis	405
bruni Balachowsky, Aonidiella	1(lp)	
bulba Munting, Andaspis	2(2p)	
2(lt)	bullata (Green), Bigymnaspis	2
bumeliae Ferris, Diaspidiotus	5(1tm)	
bumeliae Ferris, Nicholiella	3(2tm)	
2(lt, lc)	bupleuri (Marchal), Getulaspis	3(lc, 1tm)
119	buxi (Bouche), Pinnaspis	424, am

-C-

55	cacti Comstock, Diaspis (= D. echinocacti)	5(5t)
	cacti var. opuntiae Cockerell, Diaspis (= D. echinocacti)	2(2pt. of t)
	caffra (Brain), Africaspis	3(1t)
21(lc)	calcarata (Ferris), Dactylaspis	2(2p)
4(lt)	californica (Coleman), Nuculaspis	165(4c), i, ss, am
70	calura (Cockerell), Melanaspis	11(3tm)
85	camelliae (Hoke), Insulaspis	217(1p)
5(2c)	camelliae Comstock, Parlatoria	308(2t), am
1	canaliculata (Green), Circulaspis	10(3c, 2tm,)i, ss
1(lt)	canariensis (Lindinger), Rhizaspidiotus	1
	candida (Green), Phenacaspis	2(1t, 1tm)
1	candidula (Cockerell), Hemiberlesia	5(2t, 1c)
1	capensis Newstead, Aspidiotus	1
1	capensis (Walker), Separaspis	5
2	capparisi (Brain), Dentachionaspis	6(1t, 2p, 3tm)
2(2t)	caricis Ferris, Pinnaspis	13(2tm)
1	carinata (Cockerell), Opuntiaspis	29(5tm)
1(lt)	carissae Hall, Diaspis	1(lc)
	carissae (Cockerell), Rolaspis	7(2t)
139	carolinensis Beardsley, Lepidosaphes	1(lp)
4(lc)	carueli (Targioni-Tozzetti), Carulaspis (= C. juniperi)	0
	caryae Cooley, Chionaspis	16(12c)
	caryae Kosztarab, Diaspidiotus	1(lh)
	casuarinae (Maskell), Anamefiorinia	8, i
2(lt)	casuarinae (Maskell), Lepidosaphes	10(1t)
	casuarinae (Maskell), Pseudaonidia	13
	cattleyae (Cockerell), Diaspis	10(2t)
	cattleyae Lepage, Niveaspis	5
	cauae Balachowsky, Pseudoparlatoria	2

2	ceanothi (Ferris), Aonidomytilus	18
1	ceardi (Balachowsky), Saharaspis	9 ,i,pm
	cecconii (Leonardi), Quadraspidiotus	6 ,i,ss
	celastri (Maskell), Selenaspis	8
	celtidis Cockerell, Diaspis (= Situlaspis yuccae)	3(3t)
	celtis Kuwana, Lepidosaphes	3
1(lc)	celtis (Kuwana), Phenacaspis	4(3c)
2	cerata (Maskell), Monaonidiella	11,ss
2(lc)	ceratoniae Gennadios, Mytilaspis (= L. ulmi)	0
	ceratoniae (Marchal), Voraspis	2(lc)
	chaetachmae (Brain), Rolaspis	4(lt)
	chaetachmeae Brain, Aonidia	3(3t)
1	charmoyi Brain, Furcaspis	9,am
	chenopodii (Marlatt), Remotaspis	6(4t, 2tm)
	chilensis Cockerell, Diaspis	22(3t, 1c),ss
	chilopsidis Marlatt, Mytilaspis (= Velataspis mimosarum)	4(4t)
2	chinensis Kuwana et Muramatsu, Aspidiotus	2
	chinensis (Chamberlin), Cornuaspis	16,am
32(lpt of t, lm)	chinensis (Marlatt), Parlatoreopsis	110(2t, 4c)i,ss,am
	chinensis (Cockerell), Phenacaspis	12(lt, 2tm)
4	chionaspiformis (Newstead), Africaspis	14
	Chionaspis spp.	397
	chiriquiensis Ferris, Dinaspis	1
	chortina (Ferris), Chortinaspis	2(lp, ltm)
	Chortinaspis spp.	5
	Chrysomphalus spp.	140
	chui Takagi, Acanthomytilus	6(6tm)
37	cinchonae McKenzie, Protodiaspis	6(lt, lp, 2to)i
	cinerea Hadden, Parlatoria	277(5t, ltm)
1	cingala Green, Parlatoria	2
	cingulata (Froggatt), Pseudaonidia	3
	cinnamoni Rutherford, Parlatoria	1
	cinnamoni var. mangiferae Newstead, Aulcaspis (= A. tubercularis)	1(ltm)
	circularis Fitch, Aspidiotus	1(lt)
	circularis Munting, Duplachionaspis	1(lp)
	circulata Green, Diaspis (= Hemiberlesia rapax)	1(lt)
158(lt)	citri Comstock, Chionaspis (= Unaspis citri)	0
1	citri McKenzie, Parlatoria	36
158(lt)	citri (Comstock), Unaspis	440(3t, 1c)
25(2t)	citrina (Coquillett), Aonidiella	171(4t)i,am
6(lt)	cladii (Maskell), Paraonidiella	22,i
	Clavaspidiotus spp.	9
	Clavaspis spp.	23
25(lc)	claviger (Cockerell), Duplaspidictus	67(3t)i
3	coccois Lichtenstein, Diaspis	38
	coccolobae Ferris, Melanaspis	170
1	Coccomytilus spp.	19
	cocculi (Green), Parainsulaspis	3,i
21	cockerelli (Grandpre + Charmoy), Lopholeucaspis	121,i
9(lm)	cockerelli (Cooley), Pseudaulacaspis	222(2m)
	cocotiphagus Marlatt, Aspidiotus (Aonidiella) (= A. orientalis)	2(2t)
	cocotis Newstead, Aspidiotus (= A. destructor)	1(lc)
	coimbatorensis Borchsenius + Williams, Contigaspis	3,am

4(lt)	colimae Ferris, <i>Protodiaspis</i>	1(1tm)
1	colorata (Cockerell), <i>Abgrallaspis</i>	18(4t, 3c, 3to) i
	comata (Maskell), <i>Pseudotargonia</i>	11
	combreti (Hall), <i>Gadaspis</i>	1
	commiphorae Ben-Dov, <i>Africaspis</i>	2(2p)
	communis (Hall), <i>Africaspis</i>	7
13	comperei McKenzie, <i>Aonidiella</i>	80(1h, 1p) am
	comperei Marlatt, <i>Aspidiotus</i>	10(7t, 1c)
22(20c)	comstocki (Johnson), <i>Gonaspidiotus</i>	41(7t, 7c) ss, am
	Comstockiella spp.	2
7	conchiformoides (Borchsenius), <i>Mytilaspis</i>	56
81	conchiformis (Gmelin), <i>Mytilaspis</i>	321
7	coneinnum Cockerell, <i>Xanthophthalma</i>	29,i
6	concolor (Cockerell), <i>Aonidomytilus</i>	22(1t)
7(2t)	coniferarum (Cockerell), <i>Diaspidiotus</i>	17(1t, 2c) i, am
	conocarpi McKenzie, <i>Diaspis</i>	3(2p, 1tm)
	consolidata Ferris, <i>Chortinaspis</i>	4(1tm)
	conspicua (Brain), <i>Morganella</i>	10(1t, 7p) ss
	convexa (Maskell), <i>Coccomytilus</i>	6
	convexus Comstock, <i>Aspidiotus</i> (= <i>Diaspidiotus aencylus</i>)	3(3t)
	coralinus (Froggatt), <i>Remotaspidiotus</i>	2
	cordiae Rubsaamen, <i>Diaspis</i>	2(2c)
4(lt)	cordylinidis (Maskell), <i>Fusilaspis</i>	17
34(2c)	cordylinidis Maskell, <i>Leucaspis</i>	28(4t)
	corni Cooley, <i>Chionaspis</i>	38(4c)
	corni (Takahashi), <i>Insulaspis</i>	1
8(lt)	cornigera (Green), <i>Greeniella</i>	14(2t) ss
	cornigera Ferris, <i>Velataspis</i>	2
	cornutus Ramakrishna, <i>Lepidosaphes</i>	4
3	corokiae (Maskell), <i>Aspidioides</i>	9(2c)
	corporifusca Molinari, <i>Abgrallaspis</i>	5
3	corticispini (Lindinger), <i>Unaspidiotus</i>	5,ss
2	corticoides (Green), <i>Octaspidiotus</i>	1
	corticosa (Brain), <i>Melanaspis</i>	3(1t, 1p)
	coryphae Cockerell + Robinson, <i>Aspidiotus</i>	10(3t) i
	Costalimaspis spp.	3
15(lt)	coursetiae (Marlatt), <i>Clavaspis</i>	31(3t) ss
1	covilleae (Ferris), <i>Clavaspis</i>	11
5(2t)	crawii (Cockerell), <i>Andaspis</i>	22(1t, 6c) am
7(lt, 1c)	crawii (Cockerell), <i>Aulacaspis</i>	15(5t, 1c, 1tm)
	Crenulaspidiotus spp.	94
3(2t)	crenulata Green, <i>Aonidia</i>	4
	crescentiae Ferris, <i>Diaspidiotus</i>	2(1tm)
3	crinita Laing, <i>Operculaspis</i>	8(2s, 3tm)
6(lt)	crotonis (Cockerell), <i>Dactylaspis</i>	15(7t)
51(lt)	crotonis Douglas, <i>Parlatoria</i>	173
	crypta McKenzie, <i>Parlatoria</i>	15(1t, 5p)
	Cryptaspidiotus spp.	2
	Crypthemichionaspis spp.	1
	Cryptodiaspis spp.	1
	cryptoloba Munting, <i>Duplachionaspis</i>	1(lp)
16(lc)	cryptomeriae Kuwana, <i>Aspidiotus</i>	53(4c)
	Cryptoparlatorea spp.	7
	Cryptophallaspis spp.	2
9(lc)	cryptoxanthus (Cockerell), <i>Quadraspidiotus</i>	20(3t, 1c)
1	crystallinus Ferris, <i>Diaspidiotus</i>	3(1tm)
8(lt)	cuculus (Green), <i>Gomphaspidiotus</i>	2
	cueroensis (Cockerell), <i>Morganella</i>	22(3c, lpt of t)

2(2t)	cuneatus Vernalha, Diaspis	1
3	cupressi (Cockerell), Hemiberlesia	6(5t)
2	cupressi (Coleman), Lineaspis	10(2t)i,ss,am
4(1c)	cupressi Ferris, Parlatoria	2(ltm)
117	curculiginis (Green), Stringaspidiotus	15i,ss
5(3t)	cyanogena (Cockerell), Contigaspis	8(1 pt. of t)
	cyanophylli (Signoret), Abgrallaspis	716,i,am
	cycadicola Kuwana, Lepidosaphes	2
	cycadis Comstock, Poliaspis	25(7t)i,ss,am
	cydoniae Comstock, Aspidiotus (= Hemiberlesia lataniae)	12(llt, lc)

-D-

3(1t)	dactylifera Ferris, Dactylaspis	2(ltm)
26(2t)	daleae Ferris, Situlaspis	2
	damara Munting, Pseudotargionia	2(lp, ltm)
7	darutyi Charmoy, Aspidiotus (= Pseudaonidia trilobitiformis)	2(2tm)
4	dearnessi (Cockerell), Rhizaspis	100(4t, 2tm)
1	decorosa Ferris, Acutaspis	5(ltm)
9	decurvata (Green), Greenaspis	1
14	defecta (Maskell), Lepidosaphes	6
7(2t, 2c)	defectopalus Ferris, Mycetaspis	8
1	degeneratus (Leonardi), Dynaspis	65(lto)
4	delicata Ferris, Melanaspis	8
1	dendrobii Kuwana, Phenacaspis	12
9	densiflorae (Bremner), Aspidaspis	21(2t)
312	dentata Borchsenius, Aspidiella	1
	dentata Ferris, Clavaspis	1(ltm)
	dentata Munting, Collubia	1(lp)
	dentata (Hoke), Velataspis	28(lp)
	dentiloba Kaussari + Balachowsky, Aspidaspis	1
1	dentiloba (Cockerell), Ferrisidea	25(6c)
4	dentilobis (Newstead), Inchoaspis	2
	depressa (Zehntner), Aulacaspis	6
	desolator McKenzie, Parlatoria	6(lp)
	destructo Signoret, Aspidiotus	788, am
396	Diaphoraspis sp.	1
	Diaspidinae spp.	394
	Diaspidiotus spp.	192
	Diaspis spp.	1,179
	dictyospermi (Morgan), Chrysomphalus	2,067, ss
	dictyospermi var. jamaicensis Cockerell, Aspidiotus (= C. dictyospermi)	1(lt)
	dictyospermi var. mangiferae Cockerell, Chrysomphalus (= C. dictyospermi)	6(6t)
64	didymus McKenzie + Nelson-Rees, Protodiaspis	2
	difficilis (Cockerell), Aulacaspis	11
	diffinis (Newstead), Hemiberlesia	128(7c)
	diffinis var. lateralis Cockerell, Aspidiotus (= Hemiberlesia lataniae)	2(lt, lpt. of tm)
12(2t)	digitata Ferris, Nicholiella	2(2tm) i
	dignus Hoke, Diaspis	1
	dilatata Green, Chionaspis (= Pseudaulacaspis cockerelli)	6(3t, 3tm)
	Dinaspis spp.	9

1	diosmae (Brain), Versiculaspis	5(lt, 2p)
	diospyri Ferris, Diaspis	1(lp)
	disclusa Ferris, Clavaspis	1(ltm)
	displacata Munting, Duplachionaspis	1(lp)
1	distichlii (Ferris), Haliaspis	3(lp)
	distincta (Leonardi), Ledaspis	4
	distinctissima (Newstead), Fiorinia	3
	distylii (Takahashi), Aulacaspis	1
	divaricata Ferris, Chortinaspis	2
	divergens Takahashi, Aulacaspis	1
	divergens (Green), Greenaspis	3
	diversa Ferris, Praecoccaspis	3(lp, ltm)
2	diversicolor (Green), Chrysomphalus	41
	donacis (Leonardi), Rhizaspidiotus	7(ltm)
5(lc)	dracaenae (Cooley), Pinnaspis	6(4c)
	dryandrae Fuller, Parlatoria (= P. pittospori)	1(lt)
3	dryandrae (Fuller), Pseudaonidia	3(3t)
86	dubia (Maskell), Phenacaspis	10
2(1 pt. of t)	duplex (Cockerell), Pseudaonidia	581(lt) i, ss
	duponti (Green), Insulaspis	3(1 pt. of t)
2(lc)	dura (Ferris), Dactylaspis	1
	dura (Newstead), Ledaspis	2(lc)
	durapyga Ferris, Pelliculaspis	1(ltm)
	Dynaspidiotus spp.	7
4	dysoxyli Maskell, Aspidiotus	1
	dysoxyli (Maskell), Phenacaspis	12,i

-E-

2	echinata Green, Aonidia	4, i
121	echinata Munting, Eucleaspis	2(2p)
	echinocacti (Bouche), Diaspis	705i, ss, am
	edentata (Ferris), Ancepaspis	14(ltm)
	eglandulosus (Lindinger), Melanaspis	5
4(lc)	ehretiae (Brain), Diclavaspis	3(lt, 2p)
	ehrhorni (Coleman), Diaspidiotus	11(2c)
	ekebergiae (Brain), Rolaspis	3(lt, 2p)
	elaeagni Maskell, Aonidia	4, i
	elaeagni (Borchsenius), Diaspidictus	2
	elaeagni McKenzie, Melanaspis	25(lh, 2p)
	elaeagni (Green), Phenacaspis	3(lt)
	elaeidis Marchal, Aspidiotus	2
	elaeidis Munting, Diaspis	2(2p)
	elaphrii Ferris, Pseudodiaspis	2(lp, ltm)
35	elongata (Green), Cryptophyllaspis	1(ltm)
	elongata (Green), Greenaspis	61(ltm)
	elongata (Takahashi), Kuwanaspis	1
	elongata Ferris, Pseudoparlatoria	2(ltm)
	emoryi Ferris, Protodiaspis	1(ltm)
	enceliae Ferris, Exuviaspis	2
	enceliae (Ferris), Melanaspis	2(lp)
1	engeddensis Bodenheimer, Chionaspis	1(lc)
	ensifera McKenzie, Aonidiella	5(lt)
	Entaspidiotus sp.	1

1	ephedrae (Lindinger), Archangelskaiia	3
	ephedrae Ferris, Pallulaspis	1(ltm)
	ephedrarum (Lindinger), Ephedraspis	2
	Epidiaspis spp.	12
	epigaeae Marlatt, Aspidiotus (Hemiberlesia) (= G. howardi)	3(3t)
	equipara Munting, Lindingaspis	2(lp, ltm)
	eremocitri McKenzie, Aonidiella	9(lh, lp)
	ericasearum Takagi, Aulacaspis	3
	ericicola (Marchal), Adiscodiaspis	2
	eritrea Mamet, Selenaspidus	1(lp)
	eritreana Williams, Duplachionaspis	1
	erocea DeLotto, Lindingaspis	1(lp)
2	erythraspidis (Newstead), Acutaspis	5
2	esakii (Takahashi), Parainsulaspis	80
	espinosai Porter, Lepidosaphes	7
15	ethelae (Fuller), Phenacaspis	2(lt)
2	etrusca Leonardi, Chionaspis	75, ss
	eucalypti (Froggatt), Lepidosaphes	2
5(lt)	eucalypti (Maskell), Neomorgania	20(lt)
	eucalypti (Froggatt), Phenacaspis	14
1	Eudinaspis sp.	1
2	eugeniae (Hempel), Aonidiella	1
20	eugeniae (Lindinger), Hemigymnaspis	1
187	eugeniae (Maskell), Phenacaspis	99, i, ss 437, i, ss
	euonymi (Comstock), Unaspis	4(lp)
	euphorbiae (Brain), Moraspis	6(5t)
	euphorbiae (Newstead), Selenaspidus	2
	euphorbiarum Borchsenius + Williams, Contigaspis	5
1	curyae (Kuwana), Parainsulaspis	6
	curyae (Takahashi), Selenomphalus	1(lh)
	curylobus Munting, Selenaspidus	1(lp)
8(lt)	curyopis Williams, Rolaspis	21(1L, 2pl, 2p, 1pt at)
15	exalbida (Cockerell), Nelaspis	55, ss
1	excisus Green, Aspidiotus	5
7	exercitata (Green), Pinnaspis	20
1	exocarpi Maskell, Poliaspis	13
3(lt)	expansa Maskell, Fiorinia	10(ltm) am
13	extensa (Maskell), Neleonardia	54, am
	externa Ferris, Fiorinia	

-F-

3(lt)	fabernii Houser, Aspidiotus (= Hemiberlesia diffinis)	9(2t, 7p)
4	fagraeae Green, Aulacaspis	6(lt)
	fallax Cockerell, Aspidiotus (= Aspidiotus destructor)	5(lt, 4c)
	farsetiae (Hall), Artemisaspis	1
	faurei (Brain), Faureaspis	9(lt, 4p)
1	faurei Hall, Balaspis	1
	fenestrata Ferris, Niveaspis	0
	fernaldi Cockerell, Aspidiotus (= Quadraspidiotus juglans-regiae)	5(lt, 4c)
	fernaldi albiventor Hunter, Aspidiotus (= Quadraspidiotus juglansregiae)	2(lc, lto)
	fernaldi v. cockerelli Parrott, Aspidiotus (= Quadraspidiotus juglansregiae)	2(2c)
	fernaldi hesperius Cockerell, Aspidiotus (= Quadraspidiotus forbesi	2(lt, 1c)

-G-

	gala Munting, Africaspis	3(3p)
	galliformens (Green), Parachionaspis	3(2pt of t)
	gaultheriae Green, Poliaspis (= P. cycadis)	1(lpt of t)
4	geijeriae Froggatt, Fiorinia	2
4	gennadii (Leonardi), Epidiaspis	7
2	giffardi (Adachi + Fullaway), Carulaspis	7
	gigas, (Maskell), Maniaspis	19(lt) i, ss, am
	gigas, (Thiem + Gerneck), Quadraspidiotus	68
	gilloglyi McKenzie, Diaspis	1(lp)
	glanduliferus Cockerell, Aspidiotus (= Q. juglansregiae)	8(5t, lc, 2to)
1	glandulosa (Newstead), Pseudotargionia	7, ss
	glaucae (Takahashi), Parainsulaspis	2
	gleditsiae Sanders, Chionaspis	33(3t, 2c)
	gliwicensis Komosinska, Abgrallaspis	9
	globosa Munting, Discodiaspis	2(lp, ltm)
	globosa Fuller, Maskellia	2(2t)
2(lt)	globosus (Brain), Dentaspis	3(lt, 2p)
107	glomerata (Green), Melanaspis	10(lpt of t)
	gloverii (Packard), Insulaspis	703, am
	gomescostai Lepage + Giannotti, Pseudoparlatoria	1
	gracilis (Balachowsky), Aonidiella	2(lp, ltm)
	gracilis Ferris, Niveaspis	1(ltm)
5(lt, lc)	graminella (Cockerell), Chortinaspis	9(2c)
	graminis (Green), Duplachionaspis	10, am
2(lt)	graminis Ben-Dov, Eremiaspis	2(2p)
1	graminis Bremner, Odonaspis	3(2t)
	granati (Koroneos), Mytilaspis	9(lto)
1	grandilobis (Maskell), Phenacaspis	14
	grandis Green, Gymnaspis	7(3t) i, ss
1(lc)	greeni (Grandpre et Charmoy), Coccomytilus	2
	greeni Brittin, Leucaspis	5(lc) am
17	greeni (Brain et Kelly), Lindingaspis	8
2(lt)	greeni Cockerell, Odonaspis	37
	greeni Marlatt, Pseudaonidia	4(ltm)
	griqua (Brain), Selenaspidus	5(lt, 2p, ltm)
1(ls)	grisea (Maskell), Lepidosaphes	13
	gudalura (Green), Aulacaspis	3(3s)
	gutierreziae Cockerell + Parrott, Aspidiotus (Targionia) (= Rhizaspidiotus dearnessi)	3(3c)
	Gymnaspis spp.	66

-H-

2(lt, lpt dt)	haematochroa Cockerell, Furcaspis	5(4t)
9	hakeae (Maskell), Phaulaspis	16, am
	Haliaspis spp.	3
38	halli (Green), Nilotaspis	71
	halli DeLotto, Rolaspis	1(lp)
	halli (McKenzie), Varicaspis (= V. africana)	1(lp)
1	haloxylon Hall, Targionia	1
	harperi McKenzie, Neopinnaspis	7(lt, lp)
129(3t)	hartii (Cockerell), Gonaspidiotus	341(2t)
2(lt)	hartii v. luntii Cockerell, Aspidiotus (= G. hartii)	4(2t, 2pt of t)
18	hawaiensis (Maskell), Andaspis	43
1	hedericola Leonardi, Aspidiotus	6(ltm)
	hedysotidis (Green), Phenacaspis	3(2tm)
	Hemiberlesia spp.	84

3	hemichionaspiformis (Green), Hemaspidis	2
	Hemigymnaspis spp.	1
	herbae (Green), Duplachionaspis	7
27(2t)	herculeana (Doane + Hadden), Clavaspis	97
	hererina Munting, Diaspis	1(lp)
	heresiarcha Ferris, Mitraspis	2(ltm)
35(2c)	heterophyllae Cooley, Chionaspis	76
1(lc)	hibisci (Grandpre et Charmoy), Andaspis	5(4to)
	hikosani (Kuwana), Kuwanaspis	10(1c)
	hisakakii Takahashi, Fiorinia	3(2c)
25(lt, lc)	howardi (Cockerell), Gonaspidiotus	139(5c) am
	howardi (Cooley), Kuwanaspis	50
	humilis (Brain), Nelaspis	11, i
15(2c)	hunteri (Newell), Diaspidiotus	3(3c)
1	hyperici Ferris, Aonidomytilus	7(ltm) i

-I-

1	ichesii Leonardi, Dinaspis	4
	ignobilis Ferris, Hemiberlesia	2(lp, ltm)
3	ilicis (Hoke), Niveaspis	4
	ima Scott, Aulacaspis	1
	imbricata (Brain), Dinaspis	6(lt, 2p)
	implicata (Maskell), Hemiberlesia	5, i
	incerta Munting, Augulaspis	1(lp)
	incisa Munting, Rolaspis	3(3p)
	incisus Ferris, Aonidomytilus	1
	incisus Ferris, Duplaspidiotus	2(ltm)
	inclusa Ferris, Vinculaspis	3(3tm)
	indiaeorientalis (Lindinger), Suturaspis	2
4	inday (Banks), Phenacaspis	10
2(lt)	indentata (Green), Fernaldanna	1
17(lt, 2c)	indica (Marlatt), Radionaspis	21(3t)
	indigoferae (Hall), Contigaspis	53
	indurata (Ferris), Melanaspis	1
	infidelis Ferris, Protodiaspis	2
6	inopinata (Leonardi), Melanaspis	11
7	inornata McKenzie, Aonidiella	114(2p) i
	insulans Ferris, Aonidomytilus	1
1	intermedia Fuller, Poliaspis	1
2(lt)	intermedia (Maskell), Scrupulaspis	6(2tm)
2	intermittens (Hall), Acanthomytilus	2
5(2c)	inusitata (Green), Froggattiella	7(3c)
	inusitatus Munting, Quadraspidiotus	1(lp)
5	iodinae Boratynski, Diaspis	16(12p)i,ss,pm
	iranicus Kaussari + Balachowsky, Diaspidiotus	2
1	isis (Hall), Nilotaspis	3
	isobaeae Takagi, Aulacaspis	1
6	itabicola (Kuwana), Microparlatoria	1
	ithacaee (Ferris), Gonaspidiotus	20(lto, ltm) ss
7(lt)	ixorae Cockerell + Robinson, Lepidosaphes	9(lt) am

-J-

1	jaapi (Leonardi), Quadraspidiotus	2
17	jamaicensis Davidson, Melanaspis	4(lh, 2p)
	japonica Kuwana, Fiorinia	31
	japonica (Kuwana), Insulaspis	5
85	japonica (Cockerell), Lopholeucaspis	237, ss, am
	jatropheae Townsend + Cockerell, Aspidiotus (= H. diffinis)	3(3t)
2(lt)	jatropheae var. parrotti Newell, Aspidiotus (= H. diffinis)	4(4t)
	javanensis Newstead, Aulacaspis	1(ltm)
3	javanensis (Green), Greeniella	2
	javanensis Green, Opuntiaspis	19(3tm)
1	jordani (Kuwana), Hypaspidiotus	5(2c, ltm)
	juglansregiae (Comstock), Quadraspidiotus	372(16t, 5c)i,ss,am
	juglansregiae var. albus Cockerell, Aspidiotus (= Q. juglan-	5(5t)
	sregiae)	
	juglansregiae var. pruni Cockerell, Aspidiotus (= Q. juglans-	3(1t, 2c)
139	juniperi (Bouche), Carulaspis	382
8	juniperi (Borchsenius), Cupressaspis	29
1	juniperi (Lindinger), Insulaspis	2

-K-

	kafkae (Cockerell), Quadraspidiotus	4(3c, ltm)
3	kalaharica Munting, Pseudotargionia	2(lp, ltm)
	kamakurensis (Kuwana), Insulaspis	23
	kamerunicus Lindinger, Selenaspidus	6
	Kandraspis spp.	2
1	kanoi (Takahashi), Unaspis	1
	karroo Munting, Formosaspis	1(lp)
	kashicola (Takahashi), Andaspis	10
	kaussarii (Balachowsky), Gonaspidiotus	2(2tm)
	kelloggi Kuwana, Aspidictus (Chrysomphalus) (= Lindingaspis setiger)	
6(lc)	kelloggi (Coleman), Stramenaspis	2(lc, ltm)
	kellyi (Brain), Temnaspidiotis	24(6c) ss, am
1	kentiae Kuwana, Phenacaspis	2(lt, lp)
	kenyae Williams, Lindingaspis	8
	kemyae Mamet, Neoselenaspidus	2
7(2t)	kermanensis (Lindinger), Salicicola	1(lp)
	keteleeriae (Ferris), Parainsulaspis	17, i,ss,am
	kigelariae (Brain), Tecaspis	1
	kirgisica Borchsenius, Lepidosaphes	6(lt, 2p)
	kiushiuensis (Kuwana), Pseudaulacaspis	2
	knemion Hoke, Leucaspis	1
	koebeliae Townsend + Cockerell, Aspidiotus (= Acutaspis albopicta)	7(7t)
	kosztarabi Takagi, Chionaspis	8(8t) am
	kurdicus (Bodenheimer), Acanthomytilus	3
3(lt)	kuwacula (Kuwana), Eucornaspis	1
	kuwanai (Takahashi), Hemiberlesia	24(ltm)
	Kuanaspis spp.	1
	kuzunoi (Kuwana + Muramatsu), Misanthaspis	80
		1

-L-

	labiatarum (Marchal), Quadraspidiotus	4
	laciniae (Brain), Duplaspidiotus	11(lt,6p)
	lactea (Maskell), Lepidosaphes	7
	lagunae Ferris, Protodiaspis	18(lp,17tm)
2(lt)	lahoarei (Takahashi), Greeniella	9(3t)i
	lanatus Cockerell, Diaspis (= Pseudaulacaspis pentagona)	1(ltm)
	laniata Ferris, Vinculaspis	3(3tm)
	lantanae (Green + Laing), Pallulaspis	7
3	larreae Leonardi, Protargionia	1
65	larreae (Cockerell), Pseudodiaspis	9(9c)
472	lasianthi (Green), Insulaspis	127(lc)i
8(lt)	lataniae (Signoret), Hemiberlesia	2,060(4t)i,ss,am
4	latastei (Cockerell), Hemiberlesia	33(5t)
5	laterochitinosa (Green), Parainsulaspis	14(2pt of t)
8(lt)	latipyga Ferris, Melanaspis	19
	latissima (Cockerell), Aulacaspis	19(lt,lc,6tm)
	latus Cockerell, Chionaspis (= Pinnaspis aspidistrae)	1(lc)
	latus Munting, Selenaspidus	2(2p)
5	lauretorum (Lindinger), Aonidiella	17
55	lauri (Bouche), Aonidia	210,i,am
4	laurinus (Lindinger), Quadraspidiotus	10
	leei Williams, Thysanofiorinia	30
	leguminosum (Archangelskaia), Diaspidiotus	1
	leivasi (Costa Lima), Melanaspis	3
	lenticularis (Lindinger), Quadraspidiotus	16
	lentigo Ferris, Pseudoparlatoria	1(ltm)
	Leonardianna sp.	1
182	lepelleyi DeLotto, Anotaspis	1(lp)
	leperii (Signoret), Epidiaspis	277
	Lepidosaphes spp.	446
	Lepidosaphinae spp.	5
	lepineyi Balachowsky, Chionaspis	2
1(lt)	leptocarpi Brittin, Odonaspis	5(lt)
2(lt)	leptospermi (Maskell), Lepidosaphes	4
	leucadendri (Brain), Rolaspis	18(2tm)
	Leucaspini sp.	1
	Leucaspis spp.	203
	leucaspis Lindinger, Cryptoparlatoria	9(lc)
	leucophloeae Rao, Andaspis	1
1(lt)	lidetti (Green), Anamefiorinia	3(lt,2tm)
9(lc)	lidetti (Cockerell), Lepidosaphes	8(2t)
6(lt)	lilacina (Cockerell), Melanaspis	11(1L,1pl)
	Lindingaspis spp.	18
	linearis (Green), Kuwanaspis	9
	linearis Hempel, Pseudischnaspis (= P. bowreyi)	5(lt,2c,2tm)
	lingnani Ferris, Odonaspis	1(ltm)
	lintneri Comstock, Chionaspis	58(10t,1c)
39(lc)	lintneri var. betulae Cooley, Chionaspis (= C. linteri)	3(lt,2tm)
1	liquidambaris (Kotinsky), Chemnaspidiotus	94(5t) am
1	lithocarpicola Takahashi, Neoparlatoria	3
	litorosa Ferris, Odonaspis	7(lp)
	litothrix Munting, Scleromytilus	3(3p)
	litsea Takagi, Thysanaspis	3
3	littoralis Mamet, Selenaspidus	1(ltm)
1	litzeae (Green), Phenacaspis	8(2tm)
	lizeriana Lahille, Paradiaspis	1(ltm)

	lobata Ferris, Dactylaspis	1
4	lobata Cockerell + Robinson, Schizaspis	11,pm
	lobulata Ben-Dov, Phaspis	1(lp)
	longicornia McKenzie, Aonidiella	2(2p)
1	longiloba (Hall), Aspidaspis	1
	longiloba Cooley, Chionaspis	31(6c)
	longirostris (Signoret), Ischnaspis	534
55	longispina (Morgan), Morganella	175,am
	longispina (Newstead), Parlatorcrepsis	15,ss
6(2t)	longissima (Cockerell), Pseudischnaspis	26(7t,lc)
	longissima (Rao), Takahashiella	3
	longula Ferris, Melanaspis	1
	Lopholeucaspis spp.	2
2(lt)	loranthi (Green), Aulacaspis	4(2t,lc)
1(lc)	loranthi (Hall), Bantudiaspis	2(lc)
	loranthi (Laing), Hemiberlesia	3
	loranthi Mamet, Schizentaspidictus	1(lt)
	louisiae Mamet, Selenaspidus	1(lp)
1	lounsburyi (Leonardi), Dentachionaspis	9
6(3c)	lounsburyi (Marlatt), Entaspidiotus	21
	lounsburyi (Cooley), Rolaspis	17(10c,2tm)
16	louristanus Kaussari + Balachowsky, Melanaspis	1
	lowi (Colvee), Anamaspis	79,i
	lueckorum Munting, Mammata	1(lp)
	lunata Ferris, Mancaspis	3(2tm)
	lycii (Brain), Ambigaspis	3(lt,2p)

-M-

	macadamiae Williams, Lepidosaphes	2(2p)
	macdanieli (Beardsley), Varicaspis	2(2p)
	macella Williams, Lepidosaphes	2(2p)
1	machili (Takahashi), Chionaspis	3
1	machili (Maskell), Lepidosaphes	3(lt,2c)
	machili Takahashi, Parlatoria	1
	machilicola Takahashi, Parlatoria	9,i,ss
2	mackieana (McKenzie), Andaspis	22(lt,lp,ltm)
3(lt,lc)	maculata Cockerell, Aulacaspis	5(2t)
	maculata Ferris, Crassaspis	1
	maculata Ferris, Pseudoparlatoria	1(ltm)
2	madagascariensis (Mamet), Paraselenaspidus	6(lp)
	madiunensis (Zehntner), Aulacaspis	7
	maesae Takagi, Aulacaspis	4(4tm)
	magna (Ferris), Ferrisidea	3(lp,ltm)
	magnifica McKenzie, Lindingaspis	2(lt,lp)
	magnospinus Newstead, Selenaspidus	3
	magnus (Lindinger), Entaspidiotus	1
1(t)	maideni (Maskell), Allantomytilus	10
15(2t)	mairei (Balachowsky), Quadraspidiotus	1
	major (Cockerell), Pseudaulacaspis	55(2t,4c)
	makii (Kuwana), Diaspidiotus	1
3	malawicus Munting, Selopetaspis	1(lp)
	maleti (Vayssiére), Quadraspidiotus	5
	malicola Borchsenius, Lepidosaphes	11
	malloti Mamet, Mauritiaspis	1(ltm)
	malzyi Balachowsky, Selenaspidus	1
2	mammata Ferris, Malleolaspis	5(ltm)
	mangiferae Takahashi, Semelaspidus	8

1	manilensis Robinson, <i>Pseudaonidia</i>	8
	manni (Green), <i>Diaspis</i>	5
3	manzanitae (Whitney), <i>Diaspis</i>	17
	marani Zahradnik, <i>Quadraspidiotus</i>	1(lc)
	marchali Cockerell, <i>Hemichionaspis</i> (= <i>Pinnaspis strachani</i>)	2(2t)
	margaritae (Brain), <i>Dentachionaspis</i>	2(lt,lp)
	marginalis Brain, <i>Aonidia</i>	4(lt,2p)
	marginalis McKenzie, <i>Parlatoria</i>	1(lp)
	marginipora McKenzie, <i>Aonidiella</i>	3(2p)
	maricoensis Munting, <i>Multispinaspis</i>	1(lp)
	marisci Tippins + Beshear, <i>Aspidiotus</i>	1(lh)
	marlatti (Parrott), <i>Melanaspis</i>	17(3tm)
	marquesi Costa Lima, <i>Pseudaonidia</i>	1(lc)
2	maskelli Morrison + Morrison, <i>Anoplaspis</i>	7(lh,2p,2c)
	massiliensis (Goux), <i>Mohelnaspis</i>	3
	maurellae (Laing), <i>Crenulaspidiotus</i>	39
1	mauritianus (Newstead), <i>Tollaspidiotus</i>	5,am
	mccombi McKenzie, <i>Diaspidiotus</i>	25(2p)
	mcgregori (Banks), <i>Insulaspis</i>	1
	mckenzei Balachowsky, <i>Parlagena</i>	1
2	meccae (Hall), <i>Cryptoparlatoreopsis</i>	2
3(lt)	media Maskell, <i>Poliaspis</i>	11(3t)i
	medicus Kaussari, <i>Dynaspidiotus</i>	1
	mediterranea (Lindinger), <i>Cupressaspis</i>	1
2(lt)	megaloba (Green), <i>Phenacaspis</i>	7(4pt of t,2tm)
1	megapora (Balachowsky), <i>Murataspis</i>	3
	melaleucae (Maskell), <i>Lepidosaphes</i>	7
	Melanaspis Cockerell, spp.	1
2(lt)	meliae (Green), <i>Andaspis</i>	3(2c)
1(lc)	melicytidis Brittin, <i>Leucaspis</i>	1
	memorabilis Ferris, <i>Pseudoparlatoria</i>	1(ltm)
* 2	mendax (McKenzie), <i>Abgrallaspis</i>	32(lt,lp)
	merrilli (Cockerell), <i>Duplaspidiotus</i>	3(2t)
	mesembryanthemae Brain, <i>Aonidia</i>	2(lt,2tm,lp)
7(2t)	messengeri McKenzie, <i>Aonidiella</i>	16(lt,2tm)
	mesuae (Green), <i>Greeniella</i>	12(lt,lto)
	Metaspidiotus sp.	1
3	metrosideri (Maskell), <i>Anoplaspis</i>	4
7(lt,lc)	mexicana McKenzie, <i>Helaspis</i>	1(lp)
1(lt)	mexicana Cockerell, <i>Mytilaspis</i>	15(2t)
2	meyeri (Marlatt), <i>Dynaspidiotus</i>	2(2t)
	michoacana Ferris, <i>Epidiaspis</i>	4
	micronesiensis Takahashi, <i>Lepidosaphes</i>	5(ltm)
	micropori Borchsenius, <i>Andaspis</i>	6
3	micropori Marlatt, <i>Chionaspis</i>	3(lt,2tm)
15(lt)	mimosae (Comstock), <i>Melanaspis</i>	22(8tm)
	mimosarum (Cockerell), <i>Velataspis</i>	25(2t)
1	mini Davidson, <i>Crenulaspidiotus</i>	8(lh,7p)
	minima (Targioni-Tozzetti), <i>Carulaspis</i>	113
	minima (Maskell), <i>Trullifiorinia</i>	1
5(lt)	minimus (Leonardi), <i>Gonaspidiotus</i>	13(2c,1tm)ss
4	minor Maskell, <i>Fiorinia</i>	9
229	minor (Maskell), <i>Pinnaspis</i> (= <i>P. strachani</i> ?)	461
38	minor v. strachani Cooley, <i>Hemichionaspis</i> (= <i>P. strachani</i>)	4(4c)
1	minuta (Green), <i>Tenuiaspis</i>	4
5(2c)	minutus Ketinsky, <i>Chrysomphalus</i>	1
	miranda (Cockerell), <i>Diaspis</i>	16(lt,4c)

	misantheae (Kuwana), Duplachionaspis	3(2c)
1(lt)	misanthi Ferris, Pygalataspis	1(lp)
5	mitchelli (Marlatt), Abgrallaspis	12(llt)
	mischocarpi (Cockerell + Robinson), Aulacaspis	5(lt, ltm)
	miyamotoi Takagi, Neoparlatoria	1(ltm)
1(lp)	momi (Kuwana), Pseudaulacaspis	2(2p)
	Monaonidiella spp.	4
	monechmae Munting, Multispinaspis	1(lp)
	monoloba Munting, Fulaspis	2(2p)
4(lc)	montana (Cockerell), Epidiaspis	7(3t)
	monticola Mamet, Pseudoleucaspis	1(ltm)
1(lc)	moorei (Green), Parrottia	2(2c)
	Morganella spp.	15
	mori (Herrick), Clavaspis	8(2c)
4	morrisoni Beardsley, Odonaspis	3(2p)
	morrisoni McKenzie, Parlatoria	19(lt, 5p)
4	morrisonorum Kosztarab, Acutaspis	5(lh)i
	multiclavata (Ferris), Melanaspis	0
	multiductus Beardsley, Palauaspis	1(lp)
	multiglandulatus Kosztarab, Aonidomytilus	7(lh)
1	multilobis Hempel, Diaspidistis	5(2t)
	multipora (Ferris), Crassaspis	4
	multipora McKenzie, Parlatoria	2(lt, lp)
	multipori (Leonardi), Lepidosaphes	1
	multipori (Takahashi), Metaspidiotus	1
	muntingi Ben-Dov, Africaspis	1
	murrayae Takahashi, Aulucaspis	6
	musae Takagi + Yamamoto, Hemiberlesia	8
5(lt)	musae (Laing), Lindingaspis	1
	mussaendae (Green), Pinnaspis	9
	mutica Williams, Aloaspis	1(lp)
	Mycetaspis spp.	8
2	myersi Green, Leucaspis	1
	mytilaspiformis Green, Parlatoria	3

-N-

	namaquensis Ben-Dov, Hulaspis	2(2p)
9(lt, 2c)	natalensis (Maskell), Duplachionaspis	7
	natalensis Cockerell, Phenacaspis (= Pseudaulacaspis cockerelli)	7(2t, 5tm)
	nebulosus Ferris, Rugaspidiotus	1
	Neleonardia spp.	20
	neolinearis (Takahashi), Kuwanaspis	8
5	Neoparlaspis spp.	9
956	neorossi McKenzie, Lindingaspis	7(lt, 2p)
19	nephellii (Maskell), Thysanofiorinia	21, i, ss
	nerii Bouche, Aspidiotus	2, 235
	newsteadi (Sulc), Insulaspis	22
	newsteadi (Leonardi), Pudaspis	5
9	nigra (Brain), Duplaspidiotus	2(lt)
3	nigra (Takahashi), Formosaspis	2
4	nigra (Cockerell), Opuntiaspis (= O. carinata)	8(2tm)
3(lt)	nigra Signoret, Targionia	3
	nigropunctata (Cockerell), Melanaspis	68(4tm)

	Nikkoaspis spp.	5
3(lt)	nitida (Maskell), Phenacaspis	4(lt)
	nivalis Takagi, Lepidosaphes	2(2tm)
	nivea (Maskell), Albastaspis	12
	Niveaspis spp.	43
	noacki Cockerell, Pseudoparlatoria	2(2c)
	noaeae (Hall), Duplachionaspis	2
	nothopanacis Ferris, Aspidiotus	1
1	novemdentata Ferris, Ancepaspis	10(2p,8tm)
	noxia (McKenzie), Insulaspis	35(lp,2tm)
	Nuculaspis spp.	34
	nulliporus McKenzie, Chrysomphalus	12(lt,2p)
	nullispina Munting, Aonidia	2(2p)
12(lt)	nyssae Comstock, Chionaspis	32(7t,1tm)

-O-

139	obscura (Comstock), Melanaspis	203(3tm)
3(lt)	obsita Cockerell + Robinson, Pseudoaonidia	3(lt)
	obtecta (Ferris), Lapozia	3(lp,1tm)
1(lpt of t)	obtusa Green + Laing, Aonidia	9(7t,2pt of t)
	occidentalis (Kosztarab), Chionaspis	3(lh)
6(2t)	occulta (Green), Cryptophyllaspis	6(lc)
8	oceania Lindinger, Furcaspis	111
	Octaspidiotus sp.	1
	Odonaspis spp.	27
	odontoglossi (Cockerell), Melanaspis	37(lp)
	ohakunensis Brittin, Leucaspis	5
	okitsuensis (Kuwana), Parainsulaspis	9
	oleae Leonardi, Lepidosaphes	1
108	oleae (Colvee), Parlatoria	576
	olgae Borchsenius, Parlatoria	1(ltm)
	operta DeLotto, Aonidia	1(lp)
	ophiopolygonus Kuwana + Muramatsu, Aspidiotus	1
	opima (Silvestri), Lindingaspis	8
	Opuntiaspis spp.	2
	orchidarium Ferris, Africaspis	72
137	orientalis (Newstead), Aonidiella	471(3c)i
1	orientalis (Green), Aulacaspis	0
	orsomi (Mamet), Insulaspis	1
	ortholobis Comstock, Chionaspis	70(lt)
	osborni (Newell + Cockerell), Diaspidiotus	130(2c)i,ss,am
149(2c)	ostreeiformis (Curtis), Quadraspidiotus	253
52	ostreata Cockerell, Pseudoparlatoria	161
14	oxycoccus (Woglum), Gonaspidiotus	45(4t)

-P-

56	paeoniae (Cockerell), Pseudaonidia	217(lt,4pt of t),ss
	palauensis Beardsley, Anastomoderma	1(lp)
	palauensis Beardsley, Lepidosaphes	1(lp)
	palestinensis Bodenheimer, Lepidosaphes (= Mytilaspis flava)	1(lc)
	Palinaspis Ferris, spp.	2
	pallens (Maskell), Lepidosaphes	14

3	pallida (Robinson), Aulacaspis	6(3tm) am
25(lt)	pallida Munting, Formosaspis	2(lp, ltm)
13	pallida (Maskell), Insulaspis	130
39(lt)	pallidula Williams, Insularis	18
1(lc)	palmae (Cockerell), Borchseniaspis	261(2t, 2c) am
1(lpt of t)	pandani Comstock, Mytilaspis ? (= Pinnaspis buxi)	3(3t)
1(lt)	pangoensis Doane + Ferris, Aspidiotus	4(2c)
	panici Hall, Odonaspis	1
	paolii Balachowsky, Aspidiotus	2(2pt of t)
	papillosa (Green), Parlaspis	2(1pt of t, lc)
	parallela Green, Neoleucaspis	4(4pt of t)
	paraphyses Takagi, Quadraspidiotus	1
	parasiti McKenzie, Diaspis	3(1p, ltm)
	parastigma Balachowsky, Chionaspis	2
	parayuccarum Munting, Targionia	2(2p)
	Parlatoreopsis spp.	6
	Parlatoria spp.	135
	parlatoriae Sulc, Syngenaspis	1
	Parlatoriini spp.	19
72	parlatorioides (Comstock), Pseudoparlatoria	429(3t) am
	parviloba DeLotto, Rolaspis	1(lp)
2(2t)	parvula Cockerell, Protodiaspis	6(6c)
	patavinus Berlese, Aspidiotus (= Q. pyri)	2(lc, lto)
	pattersoni (Green + Laing), Africaspis	8
	paucitatis (McKenzie), Abgrallaspis	1(ltm)
	paulista (Hempel), Melanaspis	42(2t, lc) am
	pectinatus (Lindinger), Diaspidiotus	2
	pedilanthi (Ferris), Clavaspis	4(lp, ltm)
	pedina Munting, Melanaspis	2(lp, ltm)
	pedroniformis Cockerell + Robinson, Chrysomphalus (= Aonidiella orientalis)	3(3t)
2	pellucida Robinson, Phenacaspis	6(2tm)
39	penicillata (Green), Froggatiella	91(1t)
	peninsularis (Ferris), Aonidomytilus	4(lp)
666	peninsularis Howell, Haliaspis	3(1h, 2p)
	pentagona (Targioni-Tozzetti), Pseudaulacaspis	1, 575, i, ss, am
	peragrata Ferris, Epidiaspis	1
328(lt)	pergandii Comstock, Parlatoria	1151(1t)
	pergandii v. camelliae Comstock, Parlatoria (= P. camelliae)	2(2t)
	pergandii v. crotonis Cockerell, Parlatoria (= P. crotonis)	4(4c)
8(lt, lc)	perieri Goux, Quadraspidiotus	3
3	perlonga (Cockerell), Lepidosaphes	14(3t, 3c)
	permutans (Green), Unaspis	2
	permutans v. verecunda Green, Chionaspis (= Unaspis permutans)	2(2tm)
660(2t)	perniciosus (Comstock), Quadraspidiotus	1, 744(1t, 4c)i, am
2(2t)	perparvula Ferris, Pseudoparlatoria	13(1tm)
	perplexa Green, Aonidia	2(1pt of t)i
	perplexus Munting, Clavaspis	1(lp)
1(lc)	perplexus McKenzie, Parlatoreopsis (= P. longispinus)	1(1t)
	perpusilla (Maskell), Gymnaspis	19(2tm)i, ss
	perseae (Comstock), Acutaspis	181(9t, 3c, 3tm)
	persearum Cockerell, Aspidiotus (= A. spinosus)	5(5t)
2(2t)	perseus Davidson, Abgrallaspis	88(1h)
	persimilis (Cockerell), Epidiaspis	10(9c)
	personata (Comstock), Mycetaspis	227(7t, ltm, 2c)
1	pertusus (Brain), Selenaspidus	12(lt, lp)

2(lpt of t)	phantasma Cockerell + Robinson, Fiorinia	5
	Phenacaspis spp.	405
2(lt)	phenax (Cockerell), Melanaspis	2(2c)
22	philococcus (Cockerell), Opuntiaspis	188
2(2t)	phoradendri (Cockerell), Epidiaspis	10(6t,3c)
	phyllanthi (Green), Greenoidea	3
	phymatodidisi (Maskell), Fusilaspis	5
	piceae Takagi, Cynodontaspis	2
	piceus (Sanders), Diaspidiotus	18(3t,3c,3tm)
	piceus (M. alenotti), Lindingaspis	4
2	pictor Williams, Abgrallaspis	6
	pimentae (Newstead), Leonardianna	4
15	pini (Maskell), Insulaspis	91
34(lt)	pini (Hartig), Leucaspis	26,i,ss
	pini Comstock, Aspidiotus (= Nuculaspis californica)	8(7t,1c)
28	pinicola Maskell, Fiorinia	36,ss
	pinicola (Leonardi), Gomezmenoraspis	1
	pinicolus (Chen), Ungulaspis	1
164	pinicorticis Ferris, Fiorinia	1
	pinifoliae (Fitch), Chionaspis	328
46	piniphila (Borchsenius), Parainsulaspis	14
	pinnaeformis (Bouche), Eucornaspis	378
	Pinnaspis spp.	455
3	pinnulifer (Maskell), Chrysomphalus	37
	piperis (Green), Cornuaspis	10
8	piriformis Ferris, Mancaspis	3(3tm)
1(lt)	pistaciae (Archangelskaya), Pistaciaspis	26
1(lc)	pistaciae (Lindinger), Suturaspis	6(3tm),ss
	pittospori Brittin, Leucaspis	2(2c)
5	pittospori Maskell, Parlatoria	91,ss
	pitysophila Takagi, Hemiberlesia	3(3tm)
	pitysophila Takagi, Lepidosaphes	1(ltm)
2(lpt of t)	plana Green, Fiorinia	4(lp)
2(lt)	planchonoides Green, Aonidia	3
6(2c)	platani Cooley, Chionaspis	20(5c)
5	podocarpi Green, Leucaspis	4
	podocarpi Mamet, Selenaspidus	3(lp)
	Poliaspis spp.	44
2	Poliaspoides spp.	5
	polygona Ferris, Annulaspis	2
	polygoni (Green), Phenacaspis	2
	pomicortis Riley, Mytilaspis (= Lepidosaphes ulmi)	1(lt)
5(2t)	ponderosa (Ferris), Melanaspis	2,(2s)
1	popularum (Marlatt), Hemiberlesia	82(6t)ss
	portaeurae Ferris, Leucaspis	16
	portoricensis (Lindinger), Crenulaspidiotus	64
	portulacariae Williams, Diaspis	1(lp)
1	portulacariae Hall, Selenaspidus	1
	praelonga (Newstead), Cooleyaspis	4
4	praetexta Ferris, Protodiaspis	1(ltm)
	proboscidaria Green, Fiorinia	17,ss
	procera DeLotto, Rolaspis	1(lp)
	producta Green, Hybridaspis	6(ltm)
	propsimus Banks, Chrysomphalus	10
15(lt)	prosopididis (Ferris), Ferrisidea	2(lp,ltm)
	prosopididis (Cockerell), Xerophilaspis	34(4c)i,ss,pm

1	proteae (Brain), Separaspis	7(1t,2p,lpt of t)
116	proteus (Curtis), Parlatoria	845
	Protodiaspis sp.	1
2	prunorum (Borchsenius), Chlidaspis	2
	prunorum (Laing), Diaspidiotus	4
	Pseudaonidia spp.	83
26	pseudaspidiotus (Lindinger), Genaparlatoria	155(1t,1c)ss
	pseudaspidistrae Green, Hemichionaspis (= Pinnaspis buxi)	1(lt)
	Pseudaulacaspis spp.	4
2	pseudocamelliae (Green), Diaspidiotus	1(lc)
	Pseudodiaspis spp.	2
	pseudoleucaspis (Kuwana), Kuwanaspis	30
1	pseudomeyeri (Kuwana), Tsugaspidiotus	9(2c)
	Pseudoparlatoria spp.	251
	pseudorapax McKenzie, Hemiberlesia	3(lt)
	pseudospinosus Woglum, Aspidiotus (= Gonaspidiotus howardi)	3(3t)
	pseudotsugae (Takahashi), Pinomytilus	2
9	pulchra (Green), Eugreeniella	30(3tm)i,ss
	pumilus (Brain), Selenaspidus	4(lt)
	punctata Ferris, Pseudoparlatoria	3(ltm)
3	punicae (Laing), Andaspis	14,am
6	pusilla Green, Aonidia	3(lc)
6	pusilla Loew, Leucaspis	94,ss,am
5(lt)	putearius Green, Aspidiotus	14(2t,2c,ltm)
11(lto)	pyri (Marlatt), Parlatoreopsis	15(4t)
2	pyri (Lichtenstein), Quadraspidiotus	61,ss
3	pyriformis (Maskell), Lepidosaphes	13

-Q-

4	Quadraspidiotus spp.	127
	quadriclavatus (Green), Duplaspidiotus	4
	quadridentata Ferris, Ancepaspis	1(ltm)
	quadriloba Munting, Namibia	1(lp)
	quadrilobata Kaussari + Balachowsky, Fisanotargonia	1
	quadrispinosa Munting, Dentachionaspis..	4(4p)
	quercicola Ferris, Hemiberlesia	7(ltm, 2pt of tm)
	quercicola Tippins + Beshear, Quernaspis	4(1h,3p)
	quercus Kuwana, Phenacaspis	21(4c)
15(lt)	quercus (Comstock), Quernaspis	51(7t,5tm)ss,am
2	quohogiformis (Merrill), Palinaspis	8(3c)

-R-

1	radicicola Ferris, Diaspis	6(lp)
2(lpt of t)	ramakrishnae Green, Gymnaspis	13(12t,1c)
	ramirezi Balachowsky, Acutaspis	1
290	rapax (Comstock), Hemiberlesia	777(13t,1c)i,am
	regius (Brain), Dynaspidiotus	3(1L,1pl)
	regularis (Newstead), Umbaspis	4
	reniformis (Cockerell), Acutaspis	12(5t,4c)
	replicata (Lindinger), Aonidiella	4
	retamae (Hall), Pallulaspis	2(ltm)
	retigera (Cockerell), Tecaspis	12(3t,6p,1c,lpt of t)
1	retrusa (Green), Andaspis	4(lc)
1(lc)		
4		

	Rhizaspidiotus spp.	4
1	rhizobium Munting, Tecaspis	3(3p)
2	rhodesiensis (Hall), Ephedraspis	2
4	rhododendri (Green), Pinnaspis	2
	rhusae Brain, Aonidia	10(lt,2p) am
6	rhusae Hall, Howardia (=Bantudiaspis loranthi)	1(lc)
	riccae Targioni-Tozzetti, Leucaspis	30
	rigida Ferris, Aspidiella	1(ltm)
	rigidus Reyne, Aspidiotus	7
1(lt)	riverae Cockerell, Aspidiotus	3(lt)
	robusta Takahashi, Aulacaspis	4
	Rolaspis sp..	1
	rosae (Bouche), Aulacaspis	337,i,am
	rosarum Borchsenius, Aulacaspis	32
	rossi (Maskell), Lindingaspis	100,am
	ruandensis Balachowsky, Aspidiotus	1
2	rubidus McKenzie, Selenaspidus	9(lt,2p)
1	rubra (Maskell), Parafiorinia	11
6(lt)	rubribullatus (Froggatt), Chrysomphalus	26(lc,5tm)
4(lt)	rubrolineata Leonardi, Trullifiorinia	9,ss
2(lt,lc)	rubrovittatus (Cockerell), Insulaspis	38(lpt of tm)
3	ruebsaameni Cockerell, Cryptophyllaspis	1(lt)
	ruelliae (Ferris), Situlaspis	1(lp)
	rufa Green, Porogymnaspis	4(3t)
35	Rugaspidiotus spp.	7
	ruthae Kotinshy, Odonaspis	182(2t,2tm)

-S-

49(lt)	sabalis (Comstock), Comstockiella	81(7t)
4(lt)	sabalis var. mexicana Cockerell, Aspidiotus (= Comstockiella sabalis)	2(2t)
1	sabatius Tippins, Aonidomytilus	4(lp)
49	sacchari (Hall), Acanthomytilus	1
5	sacchari (Cockerell), Aspidiella	1(lc),i
3	saccharicaulis (Zehntner), Odonaspis	33
	saccharicola (Costa Lima), Melanaspis	1
101	saccharifolii (Zehntner), Duplachionaspis	7,i,ss
103	saigusai Takagi, Aulacaspis	3(3tm)
1(lto)	salavatiani Balachowsky + Kaussari, Chortinaspis	1
1	salicicola Ferris, Epidiaspis	1
4(lt)	salicina Borchsenius, Lepidosaphes	1
	salicis (L.), Chionaspis	332,i
	salicisnigrae (Walsh), Chionaspis	127
	salicornia (Gomez-Menor), Discodiaspis	2(lto)
	samoana (Doane + Ferris), Phenacaspis	1
	saprosmae Green, Fiorinia	7,i
	sarkissiani Kaussari + Balachowsky, Paragadaspis	1
3	sasakawai Takagi, Pseudaulacaspis	2(2tm)
	sassceri Cockerell + Robbins, Chionaspis	22(llc)i,ss
	Schizontaspidiotus spp.	4
5	schizosoma Takagi, Chionaspis	2(2tm)
	schizostachyi Cockerell + Robinson, Odonaspis	7,ss
	schultzei (Newstead), Selenaspidus	6
	sciadopitysi (McKenzie), Insulaspis	20(lt,4p)
	sclerosa Munting, Aonidia	3(lp,2tm)i
	sclerosa Munting, Gymnaspis	1(lp)

2(lt)	scrobicularum (Green), <i>Pinnaspis</i>	4(lt, 2pt of tm)
4(lt)	scrobicularum (Green), <i>Trullifiorinia</i>	4(ltm) ss
1	sculpta Ferris, <i>Malleolaspis</i>	4(2tm)
	scutiae (Brain), <i>Africaspis</i>	2(lt, lp)
	scutiformis (Cockerell), <i>Acutaspis</i>	49(lt, 2c, 2tm)
3	secreta (Green), <i>Adiscofiorinia</i>	3
16(lt)	secreta (Cockerell), <i>Odonaspis</i>	33(4c)i, ss
	selangorensis Hall + Williams, <i>Aspidiotus</i>	5
	<i>Selenaspidina</i> spp.	3
	<i>Selenaspidus</i> spp.	81
	septunx Ferris, <i>Prodigiaspis</i>	1(ltm)
	serratiloba Ferris, <i>Dactylaspis</i>	1(ltm)
	serrifrons (Leonardi), <i>Scobinaspis</i>	3
9(lt)	serrulata Townsend + Cockerell, <i>Pseudoparaltoria</i>	20(15c) am
1	setiger (Maskell), <i>Lindingaspis</i>	9
	shiranensis Kuwana, <i>Nikkoaspis</i>	7, ss
4	signata Ferris, <i>Protodiaspis</i>	1(ltm)
1	signata (Maskell), <i>Unachionaspis</i>	7
	signoreti Targioni-Tozzetti, <i>Leucaspis</i>	16
3	signoreti Comstock, <i>Aspidiotus</i> (= <i>Targionia nigra</i>)	2(2t)
2(lc)	silvaticus (Lindinger), <i>Neoselenaspidus</i>	49
1	similis Green, <i>Fiorinia</i>	1
	similis McKenzie, <i>Lindingaspis</i>	2(2t)
	simmondsiae Ferris, <i>Diaspis</i>	8(lp, ltm)
	simplex Leonardi, <i>Aonidia</i>	2
	simplex (Grandpre and Charmoy), <i>Aonidiella</i>	2
	simplex Munting, <i>Namaquea</i>	1(lp)
	simplex Takagi, <i>Pseudaulacaspis</i>	2
	simulans DeLotto, <i>Aspidiotus</i>	1(lp)
	sinensis Ferris, <i>Hemiberlesia</i>	1
	sinoiae (Hall), <i>Tecaspis</i>	1(lc)
6(lt)	sinuta (Ferris), <i>Crenulaspidiotus</i>	1
2	siphodontis Cockerell + Robinson, <i>Pinnaspis</i> (= <i>P. buxi</i>)	1(lt)
	sitreana (Hempel), <i>Melanaspis</i>	1
	<i>Situlaspis</i> spp.	4
	slavonicus (Green), <i>Quadraspidiotus</i>	1
12(lt)	smilaceti Takahashi, <i>Fiorinia</i>	4(3c)
	smilacis (Comstock), <i>Melanaspis</i>	34(1L, 3pl)
	smilacis (Takagi), <i>Parainsulaspis</i>	1
3	socialis (Hoke), <i>Quadraspidiotus</i>	1(lp)
	solidaginis (Hoke), <i>Aonidomytilus</i>	11
	sozanica Takahashi, <i>Chionaspis</i>	3
	spartii Kaussari, <i>Dynaspidiotus</i>	1
	spartinae (Comstock), <i>Haliaspis</i>	40(4t) am
1(lt)	spatulata Green, <i>Aonidia</i>	1(lpt of tm)
	sphaerioides (Cockerell), <i>Mycetaspis</i>	62(3t) am
	sphaerocarpae (Balachowsky), <i>Quadraspidiotus</i>	2
	spiculata (Green), <i>Xiphuraspis</i>	1(lpt of t)
	spinicola Dietz + Morrison, <i>Phenacaspis</i> (= <i>Chionaspis gled-</i> <i>itsiae</i>)	4(lc)
1	spinifera (Maskell), <i>Berlesaspis</i>	18
1	spinigera (Lindinger), <i>Morganella</i>	2
	spinomarginata Green, <i>Gymnaspis</i>	1
	spinosa (Maskell), <i>Aulacaspis</i>	7
	spinosa Munting, <i>Namibia</i>	1(lp)
29(lt)	spinosus Comstock, <i>Aspidiotus</i>	132(27t)
	spinosus Laing, <i>Selenaspidus</i>	4
	spinulosa Beardsley, <i>Lepidosaphes</i>	15(lp)
	spurcatus Signoret, <i>Aspidiotus</i>	13

	squamea Ferris, Melanaspis	6
	squamosa Hempel, Diaspidistis	3
	stanotophri (Cooley), Duplachionaspis	23(4c, ltm)
	stauntoniae (Takahashi), Metaspidiotus	23
	stoebae Munting, Targionia	1(lp)
279(lt)	strachani (Cooley), Pinnaspis	1,044
2	striata (Newstead), Lineaspis	7
2(lt)	stricta (Maskell), Leucaspis	12(2tm) ss, am
1	stricta (Maskell), Phaulomytilus	11(ltm)
1	strobilanthi (Green), Phenacaspis	2
	subchortina (Laing), Chortinaspis	16, am
10	subcircularis Balachowsky, Pseudoparlatoria	1
	subcorticalis (Green), Phenacaspis	13(lc)
	subcorticis Ben-Dov, Pseudotargionia	2(2p)
	subcuticularis (Green), Clavaspis	1
1	subfervens (Green), Clavaspis	11
	subnigra McKenzie, Acutaspis	3(lt, lto)
5	subrubescens (Maskell), Octaspidiotus	22(lt) ss
6(2t)	subsimplis (Cockerell), Clavaspis	12(lot)
	subsimplis var. anomae Houser, Aspidiotus (= Clavaspis herculeana)	3(lt, 2p)
1	subspiculifera (Froggatt), Lepidosaphes	2
	substriata (Newstead), Dentaspis	2
2	subterranea Lindinger, Chortinaspis	6
	suishana (Takahashi), Kuwanaspis	5
	sulcata Ferris, Melanaspis	22
34(lt, lc)	sylvatica Sanders, Chionaspis (= C. nyssae)	38(2t, lc)
	syncarpiae (Maskell), Protodiaspis	7

-T-

1	tafiranus Lindinger, Aspidiotus	3
1(lc)	taiwana Takahashi, Fiornia	3(3o)
	taizi Mamet, Selenaspidus	1(lp)
	Takahashiaspis spp.	3
	takahashii Takagi, Crassaspidiotus	3(3tm)
	takahashii Ferris, Pseudaulacaspis	4
2	tamaricicola Malenotti, Adiscodiaspis	25
4	tamarindi Green, Aspidiotus	7
	taorensis (Lindinger), Aonidiella	1
	tapleyi (Williams), Insulaspis	20
	Targionia spp.	46
	tasmaniae Green, Aspidiotus (= A. nerii)	2(lt, ltm)
	taxodii Ferris, Quadraspidiotus	15, am
	taxus Leonardi, Aonidiella	29(3c)
	tayabanus (Cockerell), Clavaspidiotus	1
	teclea Ben-Dov, Ischnaspis	2(2p)
10	tegalensis (Zehntner), Misanthaspis	20
	temporaria Ferris, Pinnaspis (= P. strachani)	1(lt)
6	tenax McKenzie, Melanaspis	115
123	tenebricosa (Comstock), Melanaspis	6 1/4(8tm)
	tentaculata (Green), Greeniella	1(lc)
1(lc)	tenuidisculus (Newstead), Salaspis	1(l=t o c)
	tenuiloba DeLotto, Ledaspis	1(lp)
3	tenuis Ferris, Niveaspis	1(ltm)
	tenuis (Maskell), Unachionaspis	16
	terminaliae Munting, Africaspis	2(2p)

31	tesseratus (Grandpre + Charmoy), <i>Duplaspidiotus</i>	91(7t)
1	texana Ferris, <i>Clavaspis</i>	18
6(lt)	texensis (Cockerell), <i>Diaspis</i>	22(2t) am
105	theae Green, <i>Fiorinia</i>	230(lt, 2c)i, ss
112(lt)	theae Cockerell, <i>Parlatoria</i>	265(lt, 5c, ltm) am
6	theae (Maskell), <i>Pinnaspis</i>	21
	theae Maskell, <i>Aspidiotus</i> (= <i>Pseudaonidia duplex</i>)	1(1 prob. c)
1(lt)	theae var. euonymi Cockerell, <i>Parlatoria</i> (= <i>P. theae</i>)	5
31	theae var. viridis Cockerell, <i>Parlatoria</i> (= <i>P. theae</i>)	2(lt, lc)
	theobromae Williams, <i>Semelaspis</i>	1(lp)
5	thoracica (Robinson), <i>Aulacaspis</i>	10(ltm)
1	thymbrae (Koroneos), <i>Quadraspidiotus</i>	1(lto)
	Thysanofiroinia spp.	4
	tillandsiae Takagi & Tippins, <i>Epidiaspis</i>	1(lh)
	tillandsiae Tippins, <i>Pseudoparlatoria</i>	4(3p)
	tillandsiae Takagi & Tippins, <i>Quadraspidiotus</i>	1(lh)
	tinerfensis (Lindinger), <i>Aonidiella</i>	3
2	tingi McKenzie, <i>Lindingaspis</i>	41(lp)
5(lt)	tlaiuae (Balachowsky), <i>Cryptoparlatoreopsis</i>	3
	tokionis (Kuwana), <i>Insulaspis</i>	225
	tonilensis Cockerell, <i>Chrysomphalus</i> (<i>Melanaspis</i>) (= <i>Targ- aspidiotus yuccarum</i>)	2(lt, lc)
6(lt)	toumeyi Cockerell, <i>Diaspis</i>	13
5	townsendi Cockerell, <i>Diaspis</i>	13(4t, 2c)
	townsendi (Cockerell), <i>Gonaspidiotus</i>	144(8c)
	townsendi Cockerell, <i>Hemichionaspis</i> (= <i>Pinnaspis strachani</i>)	2(2tm)
	townsendiana (Cockerell), <i>Niveaspis</i>	2(lt)
1	trabuti Balachowsky, <i>Rungaspis</i>	1
	transcaspiensis (Marlatt), <i>Diaspidiotus</i>	9(6t)
	transparens Green, <i>Aspidiotus</i> (= <i>A. destructor</i>)	4(4c) am
2(lt, lc)	tricolor Cockerell, <i>Aspidiotus</i> (<i>Hemiberlesia</i>) (= <i>Hemiberlesia rapax</i>)	6(6c)
	tricuspidis Ferris, <i>Melanaspis</i>	1
	tridentata (Ferris), <i>Ancepaspis</i>	13(ltm)i, ss
	tridentifer Ferris, <i>Aspidiotus</i>	9(ltm)
70(2c)	trilobitiformis (Green), <i>Pseudaonidia</i>	274(2c) ss, pm, am
	trochodendri Takahashi, <i>Chionaspis</i>	3
	tsugae Takagi, <i>Epifiorinia</i>	2(2tm)
6(2t)	tsugae (Marlatt), <i>Tsugaspidiotus</i>	14(2t)
18	tubercularis Newstead, <i>Aulacaspis</i>	197
21	tubulorum (Ferris), <i>Paralepidosaphes</i>	46
	tubuliferus (Balachowsky), <i>Aspidaspis</i>	1(ltm)
	turanica (Archangelskaya), <i>Mytilaspis</i>	4
	turgida Ferris, <i>Pseudoparlatoria</i>	1
	turpiniae Takahashi, <i>Unaspis</i>	1
	tuta Ferris, <i>Epidiaspis</i>	1

-U-

1	uapacae (Hall), <i>Dinaspis</i>	0
1	überifera (Lindinger), <i>Silvestraspis</i>	5
29(lc)	ulapa Beardsley, <i>Lepidosaphes</i>	1(lp)
	ulmi (Johnson), <i>Clavaspis</i>	77
	ulmi (Hoke), <i>Fissuraspis</i>	13
902	ulmi (L.), <i>Lepidosaphes</i>	524, i, ss
	umbonifera (Newstead), <i>Acutaspis</i>	168
	Unachionaspis spp.	2
	Ungulaspis spp.	5

1	ungulata (Green), Ungulaspis	1
3	uniloba (Maskell), Chentraspis	14,c,am
	uniloba (Kuwana), Pinnaspis	23
	unicolae Takagi, Haliaspis	14(7t)ss
6(1t)	uvae (Comstock), Diaspidiotus	119(6t)i,c,am
3(1t, 4t of t)	uvariae (Comstock + Robinson), Pinnaspis	7(lt,6pt of tm)

-V-

	vacciniae Kuwana, Fiorinia	10
1	vagabundus Cockerell, Aspidiotus (= A. nerii)	4(4c)
	vandae (Rutherford), Andaspis	1
	vandae McKenzie, Parlatoria	8(3p,2tm)
	variabilis Ferris, Aonidomytilus	1(ltm)
	variabilis McKenzie, Chrysomphalus	7(2p, ltm)
3(1t)	varicosa (Green), Phenacaspis	9(lt, ltm)
2	vateriae Green, Parlatoria	4(2c)
	Velataspis spp.	14
	ventropora Munting, Yomaspis	2(lp)
	vermicula (Mamet), Insulaspis	9
	vermiformis (Takahashi), Kuwanaspis	25
	vermiformis (Takahashi), Takahashiella	20
1	victoriae (Cockerell), Lindingaspis	6(4t)
	victoriae (Green), Scrupulaspis	3
7	virgata Ferris, Vinculaspis	3(3tm)
	visci (Schrank), Carulaspis	6
	visci (Brain), Tecaspis	4(lt,lp)
	viticis Takagi, Andaspis	6(6tm)
	viticola (Leonardi), Diaspidiotus	1
9(1t)	vitis (Green), Phenacaspis	21
5	vitis (Signoret), Targionia	16
	vulcanica Ferris, Niveaspis	2

-W-

1	wakayamaensis (Kuwana), Misanthaspis	2(2c)
	watanabei Takagi, Aspidiotus	1(ltm)
	whitehilli (Hall), Rolaspis	3
	wilga (Leonardi), Leonardaspis	12
	wilkeyi Ben-Dov, Africaspis	5(lh,lp)
	williamsi DeLotto, Melanaspis	1(lp)
12(2c)	wistariae Cooley, Chionaspis	32(5c)

-X-

3	xanthorrhoeae (Fuller), Phenacaspis	3
	xerophila Munting, Diclavaspis	1(lp)
	xerotidis (Maskell), Phenacaspis	4

-Y-

3	yabunikkei Kuwana, Aulacaspis	7(lt,4c)
	yabunikkei (Kuwana), Diaonidia	1

4	yanagicola (Kuwana), Insulaspis	29
20	yanonensis (Kuwana), Unaspis	763
	yomae Munting, Aonidia	3(3p)
	yomae Munting, Diaspidiotus	1(lp)
	yoshimotoi Takagi, Lepidosaphes	2(2tm)
29	yuccae (Cockerell), Situlaspis	69(3c,lpt of t)
	yuccae v. neomexicana Cockerell + Parrott, Aspidiotus (= Situlaspis yuccae)	1(lt)
1(lt)	yuccarum (Cockerell), Targaspidiotus	25(7c)
1(lt)	yuccarum var. exalbidus Cockerell, Targonia	2(lt)
	yulupae Bremner, Aspidiotus (= Diaspidiotus osborni)	3(3t)
	yunnanensis Ferris, Andaspis	1
	yunnanensis Ferris, Greenaspis	1
	yunnanensis Ferris, Parlatoria	1(ltm)

-Z-

34	zamiae (Morgan), Furchadaspis	67
	zelkovae Takagi, Lepidosaphes	7
3	zillae (Hall), Contigaspis	3
	zingiberi Mamet, Aspidiella	5
129	ziziphi (Lucas), Parlatoria	458
10	zonatus (Frauenfelt), Quadraspidiotus	37, am
	zuluensis Munting, Duplachionaspis	1(lp)

Notes

Several people have given information or have asked questions which are relevant to the general coccidology community. Because one of the primary functions of this newsletter is to provide better communication, I am pleased to give the following "notes". All of you are encouraged to submit contributions to this section. For addresses of the "note givers" check your "List of Workers in the Coccoidea".

1. Ham Tippins writes, "In the next issue of the Newsletter, would you please inquire if anyone knows what happens to diaspidid excreta? Also if anyone is working (on) the digestive system. I seem to recall some work in Italy about 25 years ago on internal anatomy but I don't know if or where it was published. It is still intriguing to me that some diaspidids seem to have associated sooty mold while others do not."

2. Robert Kitchin writes, "I have recently finished my studies of spermatogenesis in Parlatoria proteus and Parlatoria ziziphus and now wish to continue these studies on additional species of Parlatoria (e.g., crotonis, camelliae, blanchardi and pergandii). I need either live or fixed (in 4 pts. chloroform; 3pt. ethanol; 1 pt. glacial acetic acid) young second-instar males and gravid females for my research."

"I would like to know if it is possible to obtain specimens of Parlatoria spp. or other diaspidids from you or someone else at the Agricultural Research Center. If not, would you know someone I could contact to obtain these specimens for my research at the University of Wyoming."

Please remember to adhere to quarantine regulations in regard to transport of live specimens.

3. I received the following letter from J. A. deBoer, "Since moving to Auckland with the Division in October my health has suffered and for this reason I have resigned from the D.S.I.R. to live in Nelson again the first of March, 1974."

"I regret very much the prospect of ending my coccid work and I hope that perhaps in the future a way can be found to continue in this field."

We regret that Miss deBoer has had to discontinue her work on scale insects, but are hopeful that her health is now improved and wish her well in Nelson.

4. Jonathan Banks has expressed an interest in receiving material of Kermes for his studies on scale-insect pigments. If you have material which might be of interest contact Jonathan for details of specimen preparation.

5. Jim Howell has asked me to inform you that the "Fifth Symposium on Coccidology" is being planned as a part of the "National Meetings of the Entomological Society of America" in New Orleans, Louisiana, on Sunday, 30 November, 1975. Although plans cannot be definitely formed until Jim (the organizer and moderator) has approval from the program committee, he is fairly certain that permission will be granted and urges each of you to plan to attend and participate.

6. A tentative program entitled "Recent Advances in the Study of Scale Insects" has been submitted to the Systematics Section Program Committee of the "XV International Congress of Entomology" to be held in Washington, D.C. 19-27 August, 1976. Our program has tentatively

been scheduled for the evening of 23 August as a special interest meeting. As it stands now, it will include five to seven invitational papers each of which will be about 30 minutes long. The committee in charge of the scale-insect program is: Doug Miller (Organizer), John Davidson (Chairman), and Michael Kosztarab (Moderator). Although we have not received final approval, it is fairly certain that we will be allowed to present our symposium, and we urge each of you to begin making plans to attend.

7. As many of you are aware, supplements to "A Selected Bibliography of the Coccoidea" and "An Annotated List of Generic Names of the Scale Insects" have been compiled by Michael and Matilda Kosztarab and Louise Russell. It is our plan to continually update these publications with additional supplements. Obviously this is a monumental task involving endless hours in the library searching through the literature. Michael points out, however, that much of this time can be saved if authors of Coccoidea papers take the time to send 2 reprints to him for recording.

8. In the northeastern U.S. Matsucoccus resinosae Bean and Godwin has become a major pest of red pine (Pinus resinosa). In years past it has killed thousands of trees in nurseries, plantations, and backyard plantings. Although the pest is known only in the U.S., its past history indicates that it may have been introduced, although this is by no means certain. The U.S. Forest Service is anxious to investigate the possibility of control by natural enemies, but if the species is introduced, where did it come from? I am writing this note to ask for help in determining a country of origin. If Matsucoccus spp. occur in your area would you examine them to see if they are resinosae? If you are unable to identify them, please send specimens to Doug Miller.

9. At Beltsville we are attempting to compile a 35mm slide collection of the field features of scale insects. We envision this collection as a regular part of the National Collection, and the slides will be available for loan. This is a task of no small proportion, and it will not be accomplished in the near future. However, it is a project which seems to us to be of considerable importance. Therefore, if you have duplicate slides or slide which we might borrow for duplication, we would be very grateful to have them. Please send them to Doug Miller.

10. As seen in the "Recent Publications" section, two petitions to the Commission have recently been published concerning the genera Dactylopius (see DeLotto, also Miller) and Pseudococcus (see Miller). These petitions are critical to the status of the families Dactylopiidae and Pseudococcidae and deserve your attention and comment.

Current Publications

I am still dissatisfied with this area of the Newsletter. There is no doubt that it can be a useful and worthwhile section, but to depend solely on authors to send copies of their recent publications is not a satisfactory method for compilation. Therefore, beginning with this Newsletter, the "Current Publications" list will be formed in part from the author cards produced by Matilda Kosztarab for our catalogues at Beltsville. We have been fortunate to have Matilda provide us with these cards on a cooperative agreement basis and are hopeful that she will be able to bring the catalogues up-to-date. Because of obvious problems, the Kosztarabs and I encourage each of you to continue to send reprints both to Beltsville and to Blacksburg so that your contributions will not be overlooked.

Current Publications

- Almeida, D. K.
1973. Contribuicao para um conspecto dos Coccoidea de Mocambique. Port. Acta Biol. (B)12(1/4):49-68.
- Almeida, D. M.
1973. Felixiella gen. n. e outros Diaspididae de Mocambique. Novos Taxa Ent. No. 100:1-8.
- Almeida, D. M.
1973. Nota acerca da cochonilha Strictococcus dimorphus Newst. "Book of Respect" to Prof. Fernando Fraude Viegas da Costa on 70th Anniversary 27 April 1968, 19-26.
- Balachowsky, A. S.
1973. Nouveau nom de genre pour un Diaspididae de Sao-Tome. Bull. Soc. ent. Fr. 78:146-147.
- Bar-Joseph, M., and Gerson, U.
- 1972-73. Avocado bark pitting associated with the latania scale. Calif. Avocado Soc. Yearbk. 1972-73:146-147.
- Ben-Dov, Y.
1973. New species of Africaspis MacGillivray from Southern Africa and Australia. Phytophylactica 5:135-142.
- Ben-Dov, Y.
1973. A new species of Hulaspis Hall from Africa. Ent. Soc. S. Afr. J. 36(2):257-259.
- Ben-Dov, Y.
1973. The genus Euphilippa Berlese & Silvestri with redescription of its type-species. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. (1972-1973) 30:282-290.
- Ben-Dov, Y.
1974. A revision of Ischnaspis Douglas with a description of a new allied genus. J. Ent. (B)43:19-32.
- Ben-Dov, Y., and Takagi, S.
1974. Resurrection of Natalaspis MacGillivray, with notes on the identity and on the larvae of the type-species. Insecta Matsumurana (n.s.) 3:43-53.
- Bielenin, I., and Neglarska, B.
1973. The salivary glands in Quadrasipidiotus ostreaeformis (Curt.). Acta Biol. Gracov. Ser. Zool. 16:95-112.
- Danzig, E. M.
1974. A new peculiar species of mealybugs from the lower Amu Darya flow. (In Russian, Eng. sum.) Zool. Zhur. 53(2):290-292.
- Danzig, E. M., and Kozar, F.
1973. A new species of soft scales, Physokermes inopinatus, sp. n. from Hungaria. (In Russian, Eng. sum.) Ent. Obozr. 52(4): 832-834.
- Davidson, J. A.
1974. The San Jose Scale. Ent. leaf. No. 11, Univ. Md., 1-2.
- Davidson, J. A.
1974. Dormant sprays for insects on ornamental plants and fruit trees. Ent. leaf. No. 27, Univ. Md., 1-2.
- Davidson, J. A.
1974. Scale insect control in Maryland. Ent. leaf. no. 88, Univ. Md., 1-6.
- Davidson, J. A.
1974. The calico scale. Ent. leaf. No. 93, Univ. Md., 1-2.
- Davidson, J. A.
1974. The tuliptree scale. Ent. leaf. No. 94, Univ. Md., 1-2.
- Dekle, G. W.
1974. Key to greenhouse soft scale insects. Fla. Dept. Agric. Con. Serv., Ent. Circular No. 144:1.

DeLotto, G.

1974. Coccus sativus Lanory, 1791, Coccus mexicanus Lamarck, 1801 and Coccus silvestris Lanory, 1791: proposed suppression under the plenary powers. Bull. Zool. Nomen. 31:

DeLotto, G.

1974. On two genera of mealybugs. Ent. Soc. S. Afr. J. 37(1):109-115.

DeLotto, G.

1974. On the status and identity of the cochineal insects. Ent. Soc. S. Afr. J. 37(1):167-193.

Gerson, U., and Davidson, J.A.

1974. Resurrection of Greenoidea MacGillivray and description of the related Avidovaspis, new genus. Proc. Ent. Soc. Wash. 76(2): 156-162.

Gerson, U., and Zor, Y.

1973. The armoured scale insects of avocado trees in Israel. Nat. Hist. J. 7:513-533.

Gimpel, W. F. Jr., Miller, D. R., and Davidson, J. A.

1974. A systematic revision of the wax scales, genus Ceroplastes, in the United States. Univ. Md. Misc. Publ. 841, 1-85.

Hambleton, E. J.

1974. Three new species of Rhizoecus from New Zealand, with notes and redescription of others. N.Z.J.Zcol. 1(2):147-158.

Hanford, L.

1974. The African scale insect genus Udinia DeLotto. Trans. R. Ent. Soc. Lond. 126:1-40.

Hodgson, C. J.

1973. A new name to replace Mashona Hodgson, 1967. Ent. Monthly Mag. 109:63.

Howell, J. O.

1974. A new species of Haliaspis from Florida on Spartina spartinae. Ent. Soc. Amer. Ann. 67(1):40-42.

Komosinska, H.

1974. Physiographical and ecological investigations upon armored scale insects of Poland. (In Polish, Eng. & Russ. sum.) Zeszyty Nauk Akad. Rolniczej Warszawie, Rozprawy Nauk 43:1-84.

Komosinska, H.

1974. Studies on the morphology of Mytilaspis conchiformis forma conchiformis (Gmelin). Ann. Zool. (Warsawa) 31(3):343-371.

Kosarzewska, E. F.

1973. Scale insects and other pests on orchids. (In Russian.) Akad. Nauk SSSR Glav. Botan. Sad Zashch. Rast. Vredit. I Bodez. Vol. 2:16-35.

Kozarzewska, E. F., and Konstantinova, G. M.

1973. Harmful species of Coccidea found on imported plant material. (In Russian.) Akad. Nauk SSSR Glav. Botan. Sad Zashch. Rast. Vredit. I Bodez. Vol. 2:53-57.

Koteja, J.

1974. Comparative studies on the labium in the Coccinea. (Pol. & Russ. sum.) Zeszyty Nauk Akad. Rolniczej, Krakow, Nr. 89:1-162.

Koteja, J.

1974. The occurrence of a campaniform sensillum on the tarsus in the coccinea. Polskie Pismo Ent. 44:243-252.

Lambdin, P. L., and Kosztarab, M.

1974. A new genus and species of pit scale from Australia. Ent. Soc. Amer. Ann. 67(3):409-412.

LePelley, R. H.

1973. Coffee insects. Ann. Rev. Ent. 18:121-142.

- Luck, R. F., and Dahlstein, D. L.
1974. Bionomics of the pine needle scale, Chionaspis pinifoliae, and its natural enemies at South Lake Tahoe, Calif. Ent. Soc. Amer. Ann. 67(3):309-316.
- MacGregor, L. R.
1972. Estudio critico sobre tecnicas de montaje de coccidos. (Critical study of the mounting technic of coccids.) (In Span., French sum.) An. Inst. Biol. Univ. Nal. Auton. Mexico 43, Ser. Zool. (1):121-130.
- McDaniel, B.
1974. The armored scale insects of Texas. Part VII. Southwest Nat. 18(4):417-442.
- Miller, D. R.
1974. Two new Heliooccus species, a key to the North American species, and a list of world species (Homoptera: Pseudococcidae). Pan-Pac. Ent. 50(2):177-192.
- Miller, D. R.
1974. Mealybugs of San Clemente Island, California. Pan-Pac. Ent. 50(2):193-202.
- Miller, D. R.
1974. Dactylopius Costa, 1835 and Pseudococcus Westwood, 1840: Proposed designation of type-species under the plenary powers with proposed suppression of Diaprosteci Costa, 1828. Bull. Zoo. Nomen. 31(3):146-153.
- Moreno, D. S., Carman, G. E., Fargerlund, J., and Shaw, J. G.
1974. Flight and dispersal of the adult male yellow scale. Ann. Ent. Soc. Amer. 67:15-20.
- Nakahara, S.
- 1974(1973). Notes on the genus Opuntiaspis, with a key to the species. Proc. Ent. Soc. Wash. 75(4):486.
- Pinto da Fonseca, J.
1973. Contribution to the knowledge of the Coccide from Brazil. Arq. Inst. Biol., Sao Paulo, 40:247-261.
- Podsialdo, Elzbieta
1974. Comparative morphological studies on populations of Astero-diaspis variolosum (Ratzeburg) from the Swietokrzyskie Mts. (Poland). Pol. Akad. Nauk, Ann. Zoo., Warszawa 32(7):75-102.
- Quayyoom, M. A.
1972. Studies on some synapomorphic characters among three Margarodid tribes in relation to Margarodid phylogeny. Pak. J. Agric. 9(1-4):107-122.
- Russell, L. M.
1974. The correct citation for the reports on Homoptera collected during the Harriman Alaska Expedition. Wash. Acad. Sci. J. 63(4):154-155.
- Russell, L. M., Kosztarab, M., and Kosztarab, M. P.
1974. A selected bibliography of the Coccoidea. Second supplement. USDA Misc. Pub. No. 1281, 1-122.
- Salama, H. S., and Hamdy, M. K.
1974. Studies on populations on two scale insects infesting fig trees in Egypt. Ztschr. f. Angew. Ent. 75(2):200-204.
- Satpathy, J. M., and Das, R. K.
1969. Field observations on the seasonal occurrence of the pink mealy bug, Saccharicoccus sacchari Ckll with special reference to varietal susceptibility. Indian Sugar, 18(10):1-3.
- Sternlicht, M.
1974. A redescription of the larva of Olliffiella cristicola Cockerell. J. Ent. (B)42:195-197.

- Stoetzel, M. B., and Davidson, J. A.
1974. Sexual dimorphism in all stages of the Aspidiotini. Ent. Soc. Amer. Ann. 67(1):138-140.
- Stoetzel, M. B., and Davidson, J. A.
1974. Biology, morphology and taxonomy of immature stages of 9 species in the Aspidiotini. Ent. Soc. Amer. Ann. 67(3):475-509.
- Takagi, S.:
1974. An approach to the Hemiberlesia problem. Insecta Matsumurana 3:1-33.
- Takagi, S., and Yamamoto, M.
1974. Two new banana-infesting scale insects of Hemiberlesia or Abgrallaspis from Ecuador. Insecta Matsumurana 3:35-42.
- Ter-Grigorian, M. A.
1973. Soft and armored scales, mealybugs, in "fauna of Armenian SSR". (In Russian.) Izv. Akad. Nauk Armianskoi SSR, Erevan, 246pp.
- Tubbert, M. A., and Berlowitz, L.
1974. Chromatin and histones in mealy bug spermatogonia. Exptl. Cell Rs. 85:205-211.
- Weidner, H.
1974. Schildlausgallen an Eucalyptusbaumen in Australien. Ent. Mitt. Zool. Mus. Hamburg, 4(85):437-464.
- Williams, D. J.
1973. Two cactus-feeding mealybugs from Argentina. Ent. Res. Bul. 62:565-570.
- Williams, D. J.
1974. The type-species of Lindingaspis MacGillivray. J. Ent. (B) 42(2):217-220.
- Williams, D. J., and Boer, J. A. de
1973. The taxonomy of some New Zealand Pseudococcidae. Roy. Ent. Soc. London Trans. 125:227-252.

FINAL NOTE

Gordon Gordh has recently come to the Systematic Entomology Laboratory as the "resident chalcidologist" replacing retiring Barney Burks. Gordon has asked me to put a note in the newsletter telling of his interest in receiving Nearctic scale-insect chalcidoid parasitoids. He is (believe it or not) anxious to receive material, so let's help him out. Material should be sent to: Dr. Gordon Gordh, Systematic Entomology Laboratory, c/o U.S. National Museum, Washington, D.C. 20560.

Second List of Additions to the List of
Workers in the Coccoidea

- 6c. Tom R. Ashley, USDA, ARS, PO Box 14566, Gainesville, Florida 32604
(a) biological control, life histories, laboratory rearing, (b), (c)
Pseudaulacaspis pentagona, (d) no restrictions.
- 6d. Ronald George Baer, Dept. of Entomology, VPI-SU, Blacksburg, Virginia 24061
- 30b. John Dooley, PPQ Inspector, USDA, APHIS, JFK Int'l. Airport, Jamaica, New York 11430 (a) systematics, biological control, life histories, (b), (c), (d) not restricted - but interest in foreign economic pests.
- 31b. W. H. Ewart, Professor of Entomology, 2085 Loma Vista St., Riverside, California 92507 (a) systematics, chemical control, biological control, life histories, (b) general, (c), (d) emphasis on southwestern US and Mexico.
- 32b. M. Imre Foldi, Docteur-Ingenieur, Institut National Agronomique, Laboratoire de Zoologie et Ecologie. 16, rue Claude-Bernard, 75005 - Paris, France
(a) anatomy, histology, cytology of females and males, electron microscopy, systematics, life history, (b) Margaretididae, (Diaspididae - Aspidiotini), (c) *Aonidiella aurantii* Maskell, (d) no restrictions.
- 32c. Saul Frommer, Senior Museum Scientist, Dept. of Entomology, University of California, Riverside, California 92502 (a) systematics, (b), (c), (d) California.
- 44b. Dr. Ronald A. Hamlen, Assistant Professor, University of Florida, Agricultural Research Center, Apopka, Florida 32703 (a) chemical control, biological control, life histories, (b) Diaspididae, Coccidae, Pseudococcidae, (c), (d) SE U.S., especially subtropical areas (Fla., Central and South America).
- 44d. Mr. Avas B. Hamon, Graduate Research Assistant, Virginia Polytechnic Institute and State Univ., Dept. of Entomology, Blacksburg, Virginia 24061 (a) systematics, life histories, (b) Asterolecaniidae and Kermesidae, (c) *Cerococcus* first instars, (d) World and North America.
- 44e. Mr. Gulmahanad Hanif, University of California, Riverside Division of Biological Control, Riverside, California 92502 (a) life histories, emphasis on biological control, (b) Coccidae, Diaspididae - primary interest on latter, (c) no specific genera or species complexes, (d) internationally.
- 55c. Dr. Robert M. Kitchin, Assistant Professor, Department of Zoology and Physiology, The University of Wyoming, University Station, Box 3166, Laramie, Wyoming 82071 (a) Cytogenetics, (b) Diaspididae, (c) *Parlatoria*, (d).
- 55d. Mr. Virgil R. Knapp, Room 613, State Office Bldg., Indianapolis, Indiana 46204 (a) systematics, chemical control, biological control, life histories, (b), (c), (d).
- 62b. Dr. R. H. Le Pelley, Lemont Ardaine, Guernsey, C. I., via England (a) systematics, biological control, (b), (c), (d).
- 65b. Greenman T. Masina, Dept. of Entomology, University of Missouri, Columbia, Missouri 65201 (a) life history, biological and chemical control, (b) Diaspididae, Coccidae, Pseudococcidae, (c), (d) presently Central Missouri, later S. Africa.

- 66a. J. J. May, 1 N. 14th St., Rm. 254, Richmond, Virginia 23219 (Reg. inspector)
(a) yes, (b) Diaspididae, Pseudococcidae, Coccidae, (c), (d) Va., Md., US.
- 75a. C. Öncuer, E. Ü. Ziraat Fakultesi, Entomoloji ve Zirai, Zoologi Kürsüsü, Bornova, Izmir, Turkey (a) biological control, (b) Coccidae, (c) Coccus, Ceroplastes, Bulecanium, Sphaerolecanium, (d) no restrictions.
- 80a. James A. Reinert, University of Florida, Agricultural Research Center, 3205 SW 70 Avenue, Ft. Lauderdale, Florida (a) biological life histories and control and economic importance, (b) Margarodidae, Diaspididae, Coccidae, Pseudococcidae, (c) Aspidiotus destructor, Pseudaulacaspis, Coccus, Cerococcus, (d) no restrictions.
- 89b. Stephen L. Sears, Economic Entomologist, 1 North 14th St. Rm. 254, Richmond, Virginia 23219 (a) chemical and biological control, (b), (c), (d) Mideastern US.
- 92a. John B. Steinwedden, Retired from California Dept. of Agriculture, 31431 Ocean View, South Laguna, California 92677 (a) systematics, biological control, (b) Coccidae, (c) Pulvinaria, Lecanium corni, (d).
- 93a. Priv. Doz. Dr. Hans Strümpel, University of Hamburg, Zoologisches Institut und Zoologisches Museum, 2 Hamburg 13, Papendamm 3, Germany (a) curator of the Rhynchota collections, (b), (c), (d).
- 104a. Ralph E. Webb, Bldg. 470, ARC-East, Beltsville, Maryland 20705 (Research Entomologist) (a) control, (b), (c) ornamentals, (d) US.
111. Thomas R. Yonke, Associate Professor of Entomology, 1-87 Agriculture, Univ. of Missouri, Columbia, Missouri 65201 (a) life histories, systematics, scale insects of Missouri, (b), (c), (d) primarily Missouri.

Notes and Corrections

- #14. Change Mr. to Dr. M. J. Berlinger
- #36a. Change Dr. Khoo See Ghee to Dr. See Ghee Khoo thus #55b.
- #61. Change of address: Paris Lambdin, Dept. of Agr. Biology, University of Tennessee, Knoxville, Tennessee 37916
- #63. Change Kozar Ferenc to Ferenc Kosar (number stays the same.)
- #97a. Dr. Magdaline Ter-Grigorian (c) delete Dactylopius cacti L.
- #101a. Change Miss Mine Tungyliock to Tuncyurek and Borvoa to Bornova.

